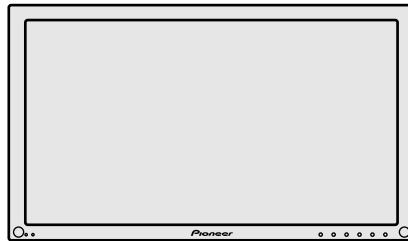


Service Manual



PDP-503PU

ORDER NO.
ARP3141

PLASMA DISPLAY

PDP-503PU

PDP-503PE

PDP-503PG

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
PDP-503PU	KUC	AC120V	
PDP-503PE	WYVI6	AC220-240V	
PDP-503PE	WYVI6XK	AC220-240V	
PDP-503PG	TLDPKBR	AC110-240V	

This product is component of system.

Component	System			Service Manual	Remarks
Plasma Display System	PDP-5030HD	PDP-503HDE	PDP-503HDG	-	
• Media Receiver	PDP-R03U	-	-	ARP3113	
	-	PDP-R03E	-	ARP3148	
	-	-	PDP-R03G	ARP3149	
• Plasma Display	PDP-503PU	PDP-503PE	PDP-503PG	ARP3141, ARP3142	This Service Manual



For details, refer to "Important symbols for good services".

Confirm it

Serial No.

○ ○ **WYVI6** : □ □ **SS** ##### △ △

○ ○ **WYVI6XK** : □ □ **UK** ##### △ △

SAFETY INFORMATION



This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE : Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed :

- When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.
 - Perform the following precautions against unwanted radiation and rise in internal temperature.
 - Always return the internal wiring to the original styling.
 - Attach parts (Gasket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
 - Perform the following precautions for the PDP panel.
 - When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
 - Make sure that the panel vent does not break. (Check that the cover is attached.)
 - Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
 - Pay attention to the following.
 - When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
 - Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

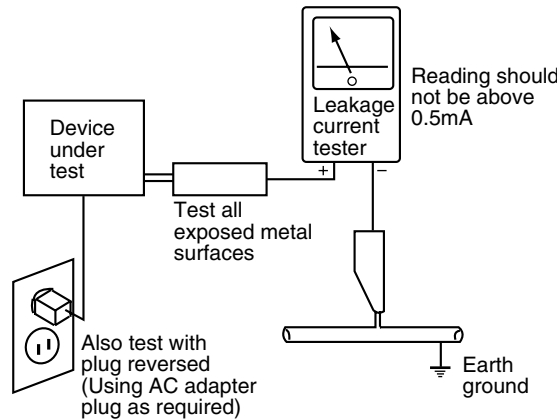
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

1. AC Power Cord
2. AC Inlet with Filter
3. Power Switch (S1)
4. Fuse (In the SW POWER SUPPLY Module)
5. STB Transformer and Converter Transformer (In the SW POWER SUPPLY Module)
6. Other primary side of the SW POWER SUPPLY Module

■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Module (225V)
2. X DRIVE Assy (–300V to 225V)
3. Y DRIVE Assy (355V)
4. SCAN (A) Assy (355V)
5. SCAN (B) Assy (355V)
6. X CONNECTOR (A) Assy (–300V to 225V)
7. X CONNECTOR (B) Assy (–300V to 225V)

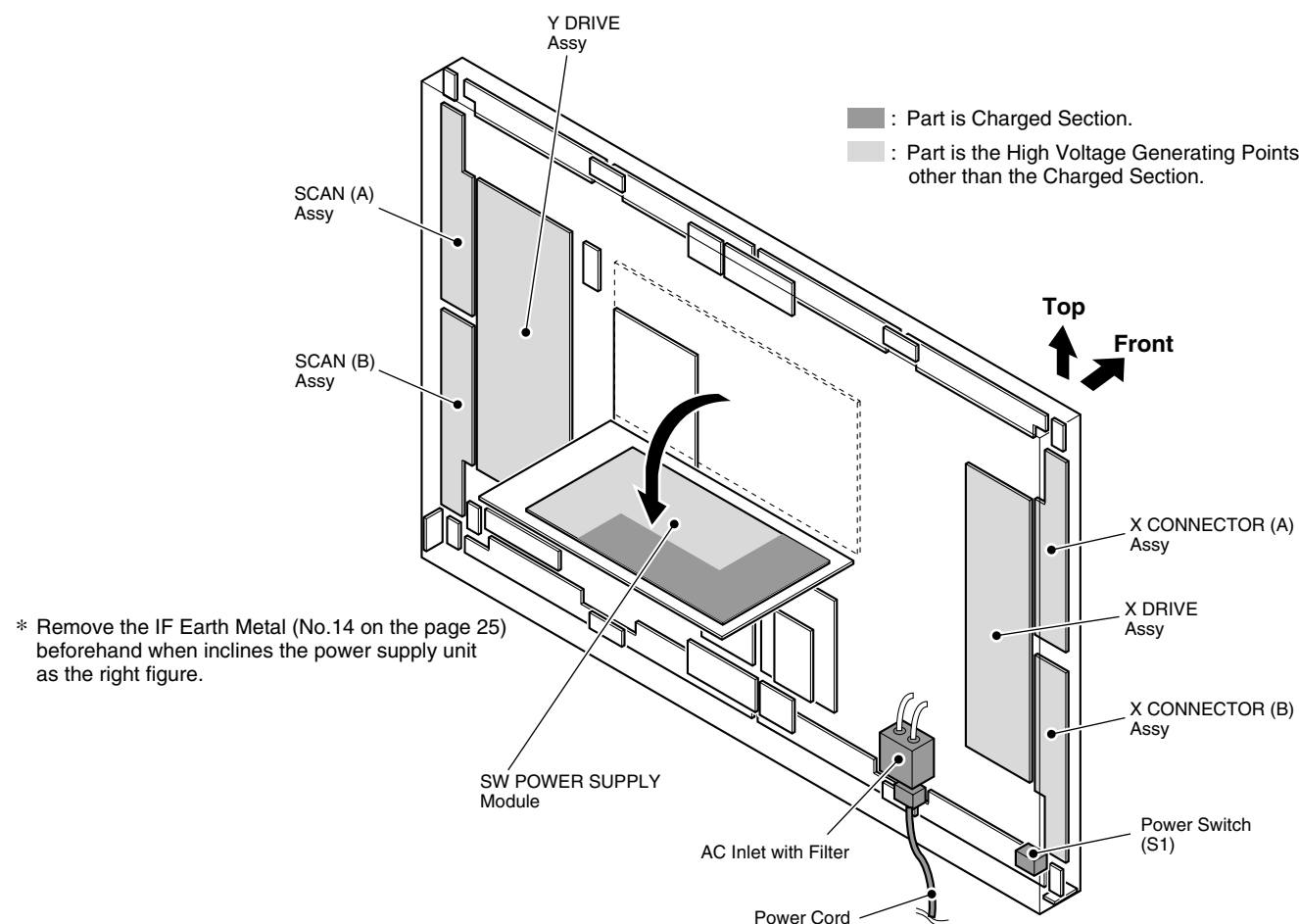


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

[Important symbols for good services]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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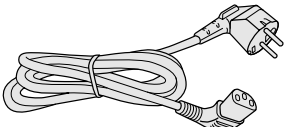

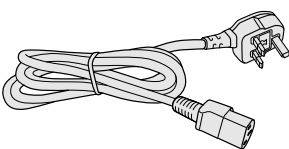

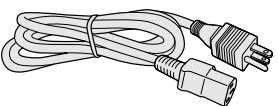
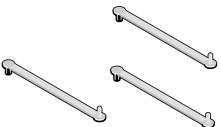
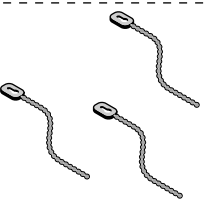
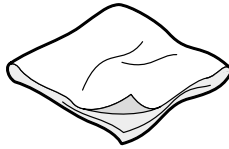
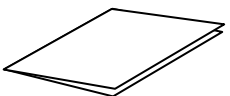
1. SPECIFICATIONS

Item	Model: PDP-503PU
Number of Pixels	1280 × 768 pixels
Audio Amplifier	12 W + 12 W (10% distortion)
Power Requirement	AC 120 V, 60 Hz, 370 W (0.6 W Standby)
Dimensions	1218 (W) × 714 (H) × 98 (D) mm [47 ^{31/32} (W) × 28 ^{1/8} (H) × 3 ^{7/8} (D) inch]
Weight	38.9 kg (85.8 lbs)
Accessories	Power Cord, Cleaning Cloth, Three speed clamps, Three bead bands, Warranty card

Item	Model: PDP-503PE	Model: PDP-503PG
Number of Pixels	1280 x 768 pixels	1280 x 768 pixels
Audio Amplifier	12 W + 12 W (10 % distortion)	12 W + 12 W (10 % distortion)
Power Requirement	AC 220–240 V, 50/60 Hz, 356 W (0.6 W Standby)	AC 110–240 V, 50/60 Hz, 371 W (0.8 W Standby)
Dimensions	1218 (W), 714 (H), 98 (D) mm	1218 (W), 714 (H), 98 (D) mm
Weight	38.9 kg	38.9 kg
Accessories	Power Cord, Cleaning Cloth, Three speed clamps, Three bead bands, Warranty card	Cleaning Cloth, Three speed clamps, Three bead bands,


- Design and specifications are subject to change without notice.


• Accessories

Power cord			
(ADG1173)   (For Europe, except U.K. and Eire)	(ADG1193)   (For U.K., and Eire)	(ADG1208)   (For North America)	
<div> <div>  <p>Three speed clamps</p> </div> <div>  <p>Three bead bands</p> </div> </div> <div>  <p>Cleaning cloth (AED1208)</p> </div> <div>  <p>Warranty card</p> </div>			

2. EXPLODED VIEWS AND PARTS LIST

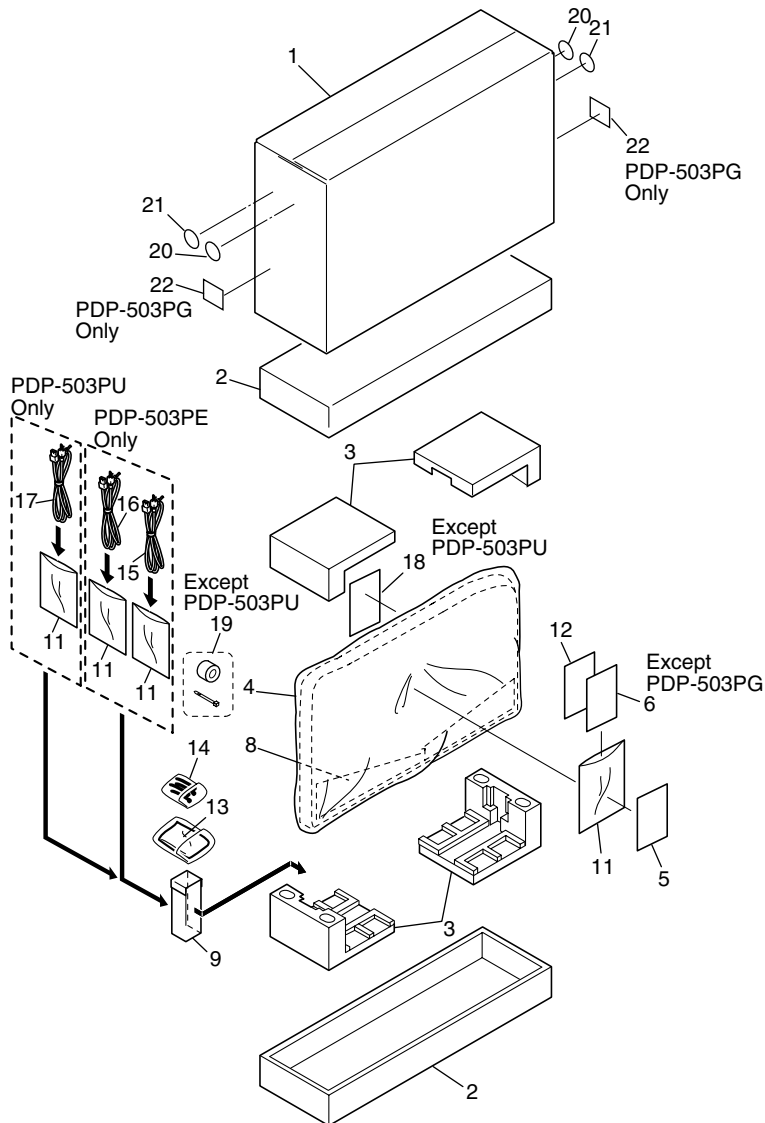
NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• Screws adjacent to  mark on product are used for disassembly.

• For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING



PACKING parts List

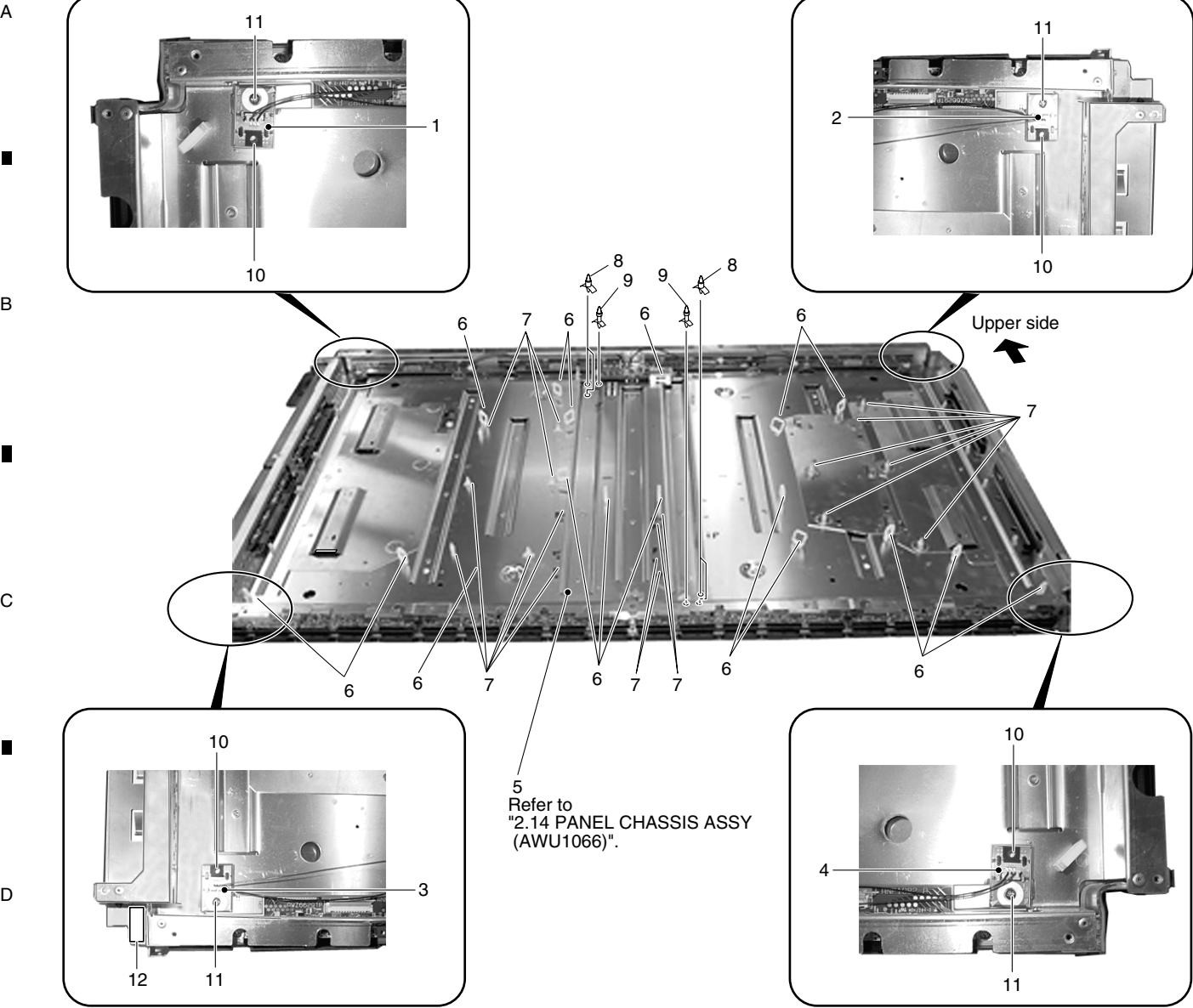
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Upper Carton	See Contrast table (2)	13	Wiping Cloth	AED1208
2	Under Carton	AHD3037	14	Binder Assy (Speed Clampx3, Bead Bandx3)	AEC1908
3	Pad	AHA2280	⚠ 15	Power Cord	See Contrast table (2)
4	Mirror Mat	AHG1284	⚠ 16	Power Cord	See Contrast table (2)
5	Caution Sheet	ARM1201	⚠ 17	Power Cord	See Contrast table (2)
NSP 6	Warranty Card	See Contrast table (2)	18	Caution Sheet	See Contrast table (2)
7	•••••		19	Ferrite Core	See Contrast table (2)
8	Front Sheet	AHB1241	20	Label (Blue 16)	AAX2787
9	Cord Case	AHC1037			
10	•••••		21	Label (Green 16)	AAX2956
11	Vinyl Bag	AHG1310	22	MIC Label	See Contrast table (2)
12	SP Caution Sheet	ARM1218			

(2) CONTRAST TABLE

PDP-503PU/KUC, PDP-503PE/WYVI6, PDP-503PE/WYVI6XK and PDP-503PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-503PU/KUC	PDP-503PE/ WYVI6	PDP-503PE/ WYVI6XK	PDP-503PG/ TLDPKBR
NSP ⚠ ⚠ ⚠	1	Upper Carton	AHD3103	AHD3104	AHD3104	AHD3105
	6	Warranty Card	ARY1112	ARY1114	ARY1114	Not used
	15	Power Cord	ADG1208	Not used	Not used	Not used
	16	Power Cord	Not used	ADG1173	ADG1173	Not used
	17	Power Cord	Not used	ADG1193	ADG1193	Not used
	18	Caution Sheet	Not used	ARM1213	ARM1213	ARM1213
	19	Ferrite Core	Not used	ATX1039	ATX1039	ATX1039
	22	MIC Label	Not used	Not used	Not used	AAX2950

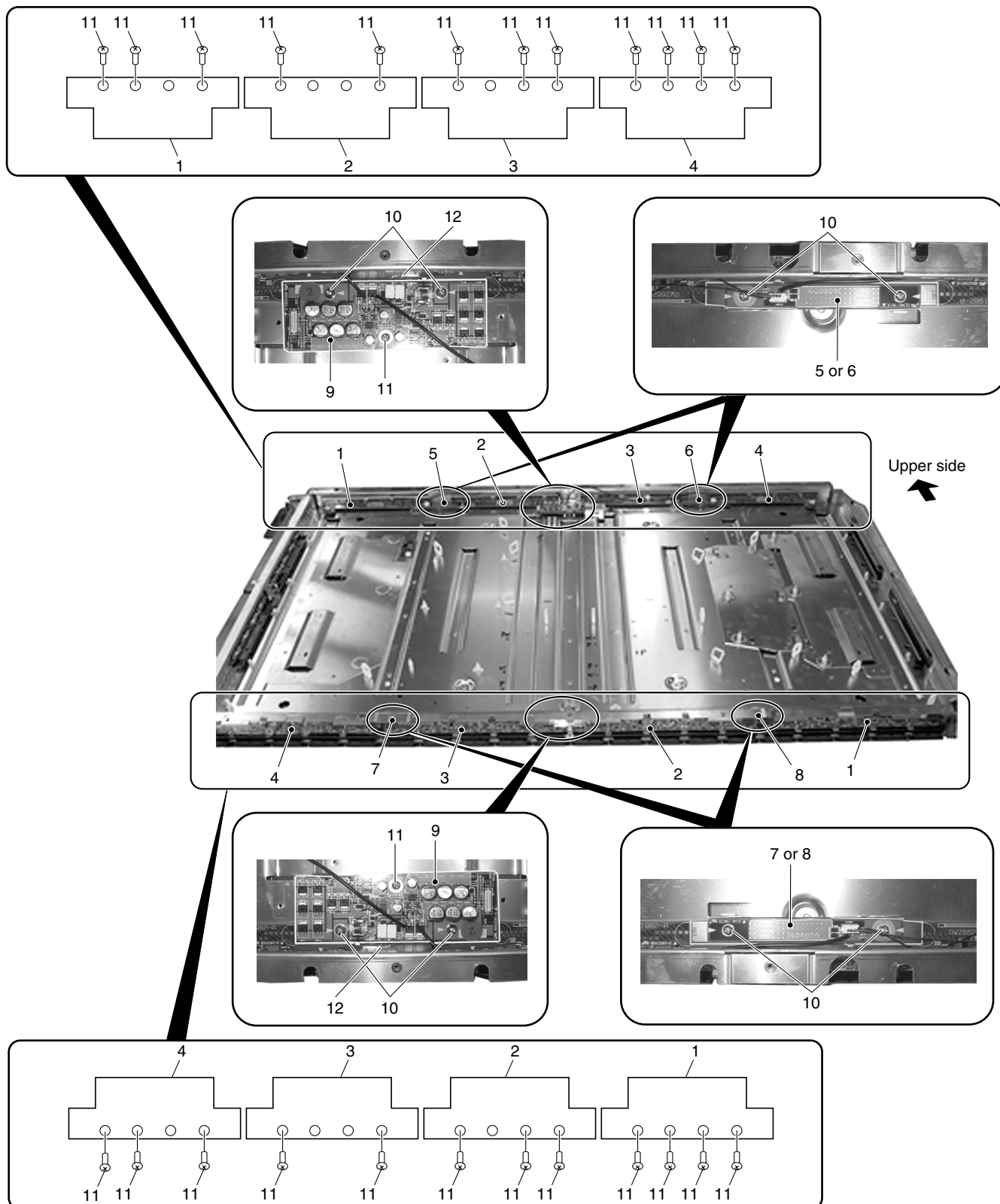
2.2 UNDER LAYER SECTION (1)



UNDER LAYER SECTION (1) parts List

Mark No.	Description	Part No.
NSP 1	CLAMP A Assy	AWZ6738
NSP 2	CLAMP B Assy	AWZ6739
NSP 3	CLAMP C Assy	AWZ6740
NSP 4	CLAMP D Assy	AWZ6741
5	Panel Chassis (50) Assy	AWU1066
	[Refer to "2.14 PANEL CHASSIS (50) ASSY".]	
6	Wire Saddle	AEC1904
7	Circuit Board Spacer	AEC1872
8	Circuit Board Spacer	AEC1873
NSP 9	PCB Support	AEC1121
10	Locking Card Spacer	AEC1736
11	Screw	ABA1301
12	V Cushion	AED1205

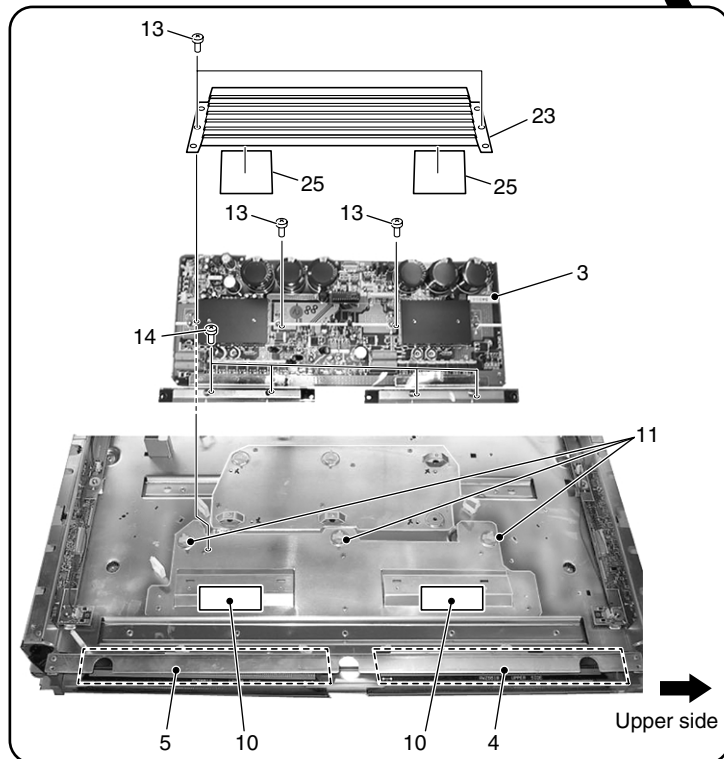
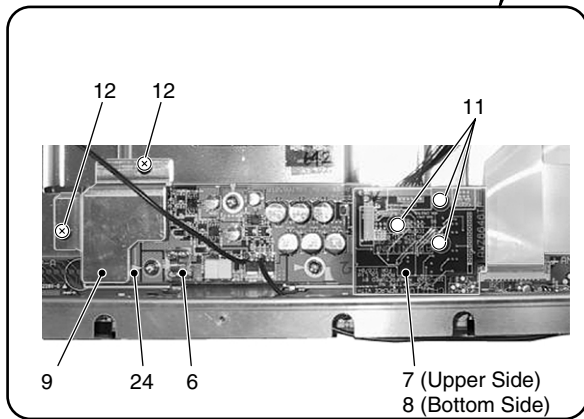
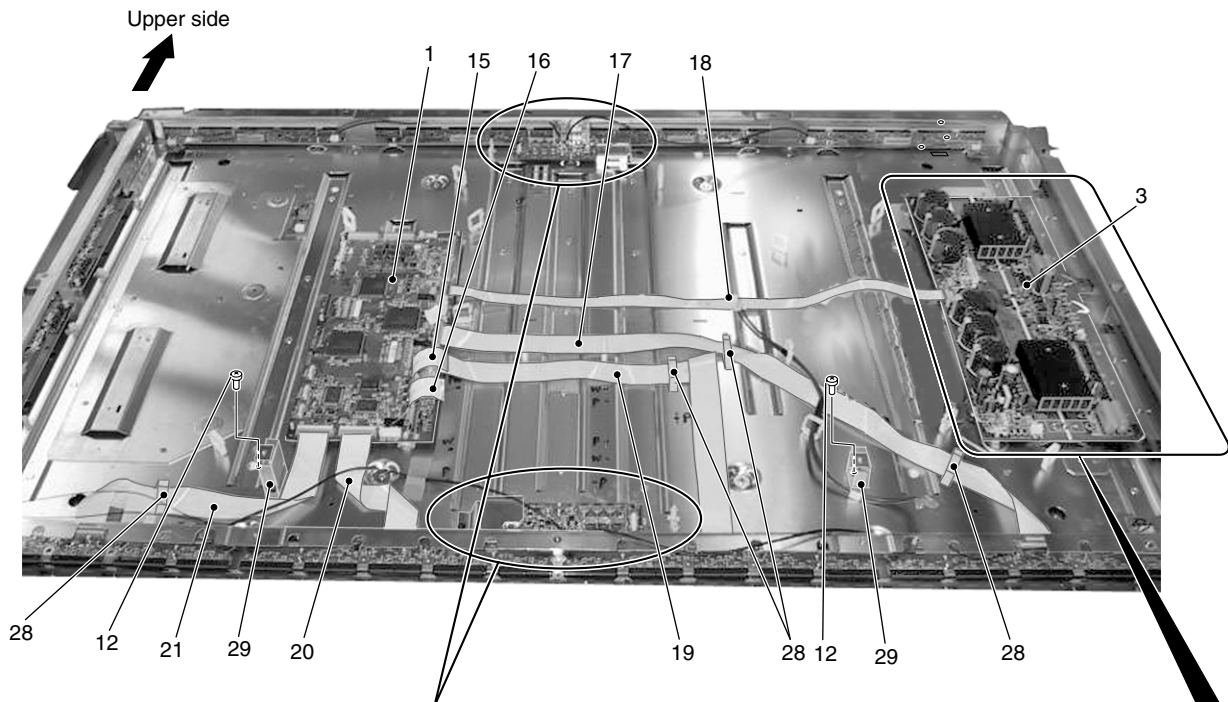
2.3 UNDER LAYER SECTION (2)



UNDER LAYER SECTION (2) parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
NSP 1	ADR CONNECT A Assy	AWZ6626	NSP 7	BRIDGE C Assy	AWZ6736
NSP 2	ADR CONNECT B Assy	AWZ6627	NSP 8	BRIDGE D Assy	AWZ6737
NSP 3	ADR CONNECT C Assy	AWZ6628	9	ADR RESONANCE Assy	AWZ6750
NSP 4	ADR CONNECT D Assy	AWZ6629	10	Screw	ABA1301
NSP 5	BRIDGE A Assy	AWZ6734	11	Screw	VBB30P100FNI
NSP 6	BRIDGE B Assy	AWZ6735	12	Insulating Sheet	AMR3343

2.4 UNDER LAYER SECTION (3)



UNDER LAYER SECTION (3) parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	DIGITAL VIDEO Assy	AWV1979
2	•••••	
3	X DRIVE Assy	AWV1984
NSP 4	X CONNECTOR (A) Assy	AWZ6732
NSP 5	X CONNECTOR (B) Assy	AWZ6733
6	ADR RESONANCE Assy	AWZ6750
7	SUB ADDRESS A Assy	AWZ6689
8	SUB ADDRESS B Assy	AWZ6690
NSP 9	Scan Heat Sink	ANH1594
10	Coil Silicone Sheet	AEH1048
11	•••••	
12	Screw	ABZ30P060FMC
13	Screw	VBB30P100FNI
14	Screw	PMB30P060FNI
15	J201 Flexible Flat Cable	ADD1194
16	J202 Flexible Flat Cable	ADD1194
17	J209 Flexible Flat Cable	ADD1191
18	J204 Flexible Flat Cable	ADD1196
19	J210 Flexible Flat Cable	ADD1190
20	J211 Flexible Flat Cable	ADD1186
21	J212 Flexible Flat Cable	ADD1188
22	•••••	
NSP 23	Drive Heatsink Assy	ANH1598
24	Silicone Sheet	AEH1039
25	Drive Silicone Sheet	AEH1041
26	•••••	
27	•••••	
28	Flat Clamp	AEC1879
NSP 29	Metal Fittings	ANG2464

A

B

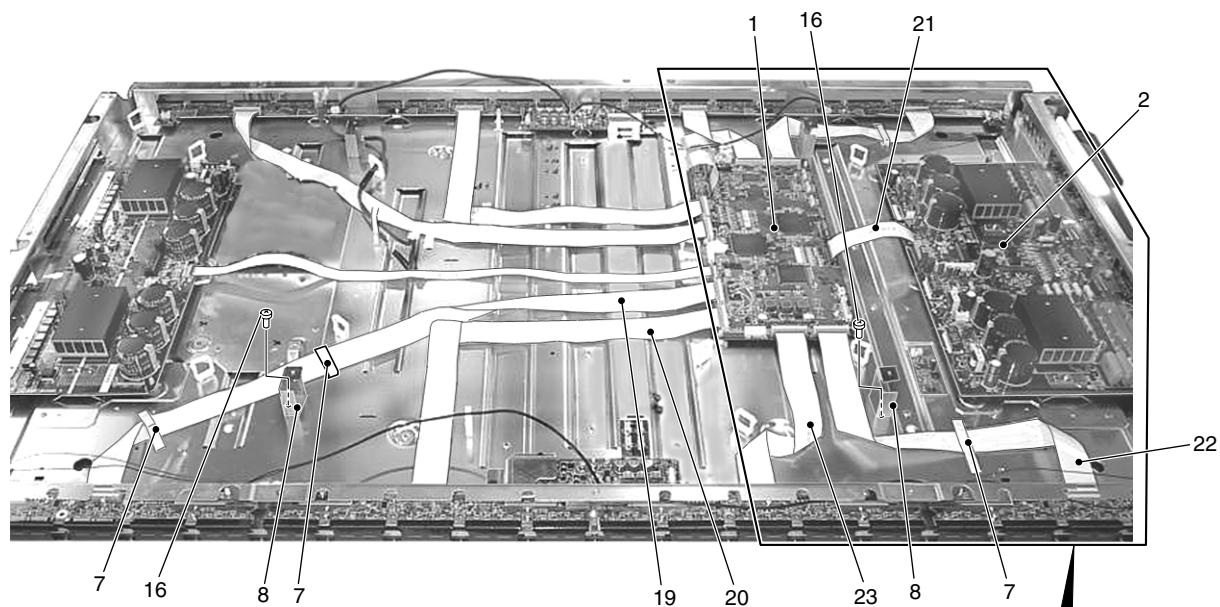
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D

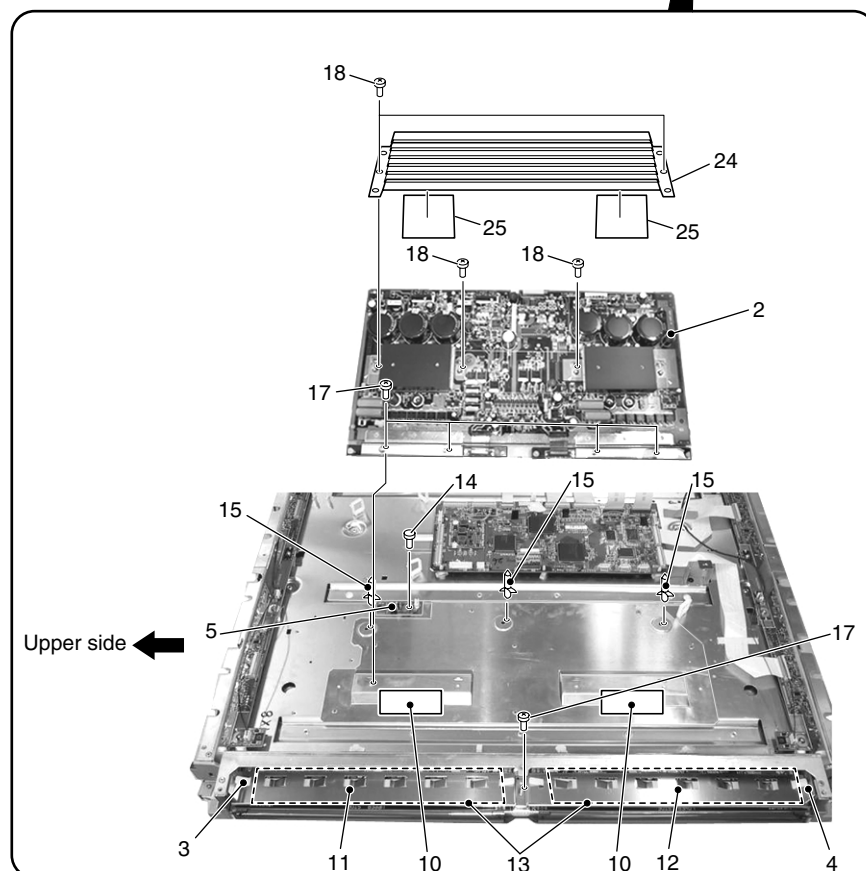
E

F

2.5 UNDER LAYER SECTION (4)



Upper side



Upper side

UNDER LAYER SECTION (4) parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	DIGITAL VIDEO Assy	AWV1979
2	Y DRIVE Assy	AWZ6746
NSP 3	SCAN (A) Assy	AWZ6722
NSP 4	SCAN (B) Assy	AWZ6723
5	THERMAL SENSOR Assy	AWZ6696
6	•••••	
7	Flat Clamp	AEC1879
NSP 8	Metal Fittings	ANG2464
9	•••••	
10	Coil Silicone Sheet	AEH1048
11	Scan IC Spring (L)	ABK1026
12	Scan IC Spring (R)	ABK1027
13	Scan Insulation Sheet	AMR3271
14	Rivet	BEC1066
15	Circuit Board Spacer	AEC1872
16	Screw	ABZ30P060FMC
17	Screw	PMB30P060FNI
18	Screw	VBB30P100FNI
19	J208 Flexible Flat Cable	ADD1191
20	J207 Flexible Flat Cable	ADD1190
21	J203 Flexible Flat Cable	ADD1184
22	J205 Flexible Flat Cable	ADD1189
23	J206 Flexible Flat Cable	ADD1187
NSP 24	Drive Heatsink Assy	ANH1598
25	Drive Silicone Sheet	AEH1041

A

B

C

D

E

F

2.6 UNDER LAYER SECTION (5)

A

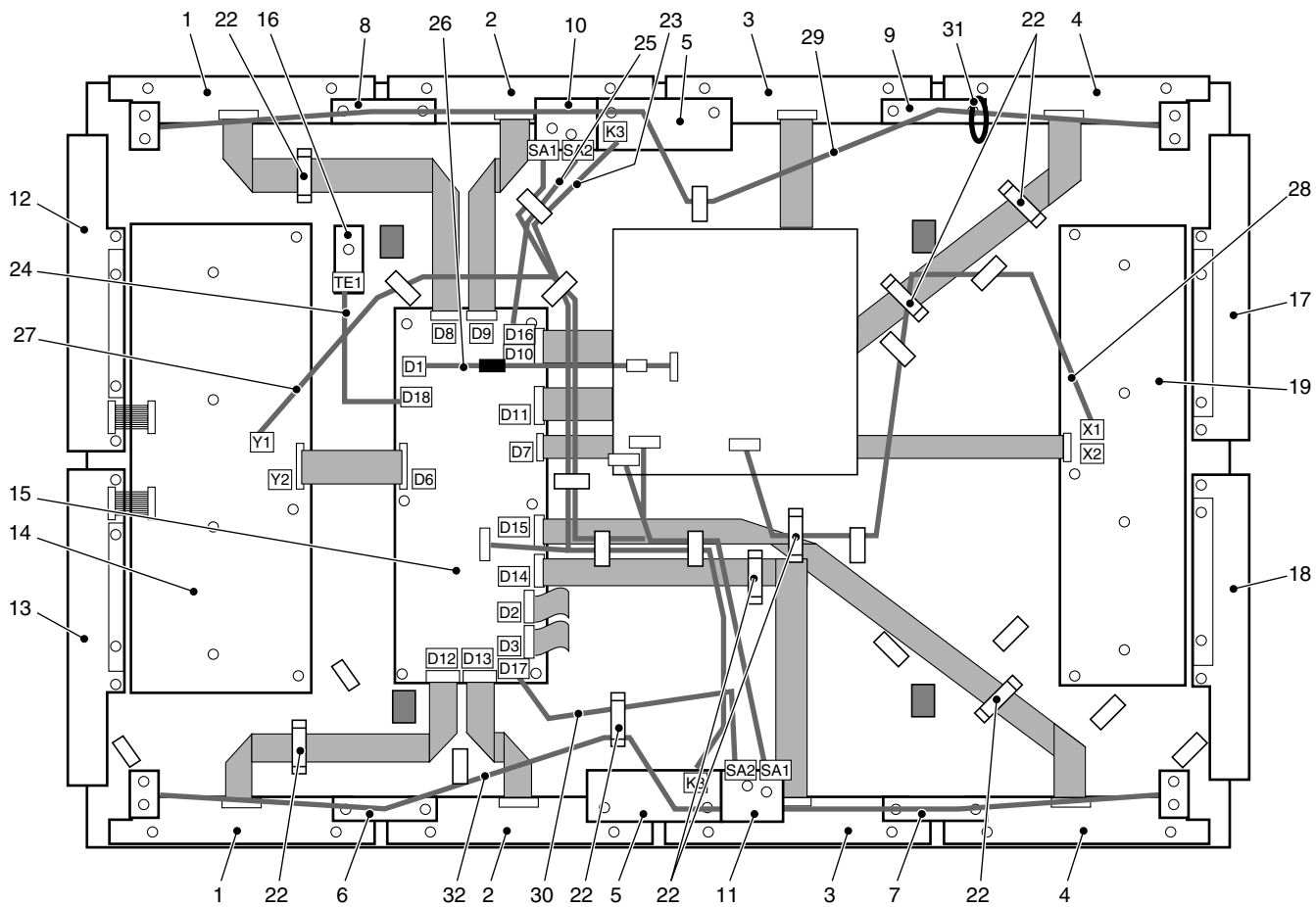
B

C

D

E

F

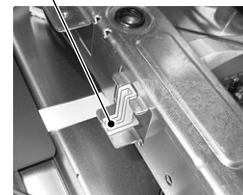
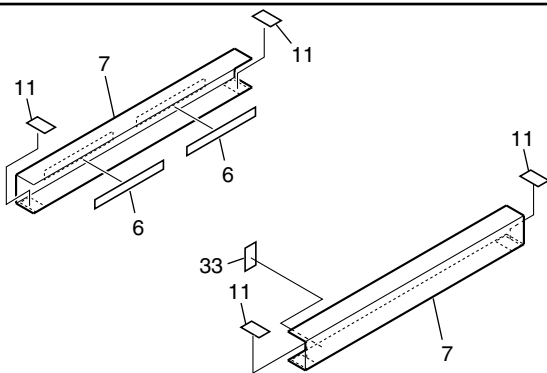
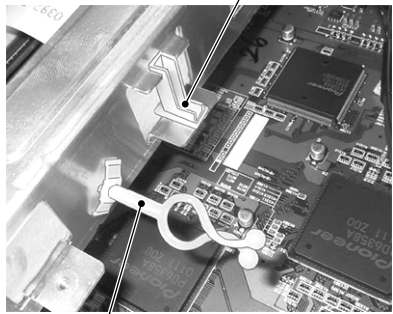


UNDER LAYER SECTION (5) parts List

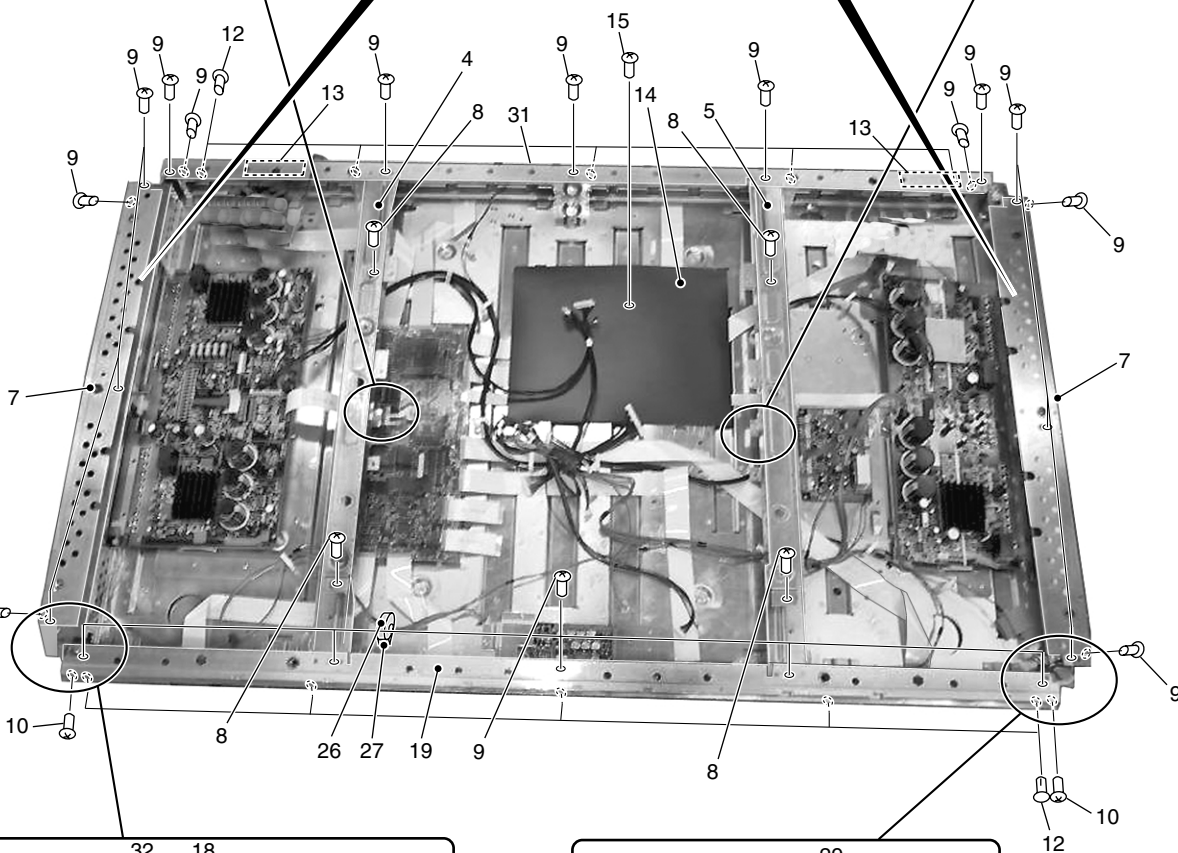
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
NSP 1	ADR CONNECT A Assy	AWZ6626
NSP 2	ADR CONNECT B Assy	AWZ6627
NSP 3	ADR CONNECT C Assy	AWZ6628
NSP 4	ADR CONNECT D Assy	AWZ6629
5	ADR RESONANCE Assy	AWZ6750
NSP 6	BRIDGE A Assy	AWZ6734
NSP 7	BRIDGE B Assy	AWZ6735
NSP 8	BRIDGE C Assy	AWZ6736
NSP 9	BRIDGE D Assy	AWZ6737
10	SUB ADDRESS A Assy	AWZ6689
11	SUB ADDRESS B Assy	AWZ6690
NSP 12	SCAN (A) Assy	AWZ6722
NSP 13	SCAN (B) Assy	AWZ6723
14	Y DRIVE Assy	AWZ6746
15	DIGITAL VIDEO Assy	AWV1979
16	THERMAL SENSOR Assy	AWZ6696
NSP 17	X CONNECTOR (A) Assy	AWZ6732
NSP 18	X CONNECTOR (B) Assy	AWZ6733
19	X DRIVE Assy	AWV1984
20	•••••	
21	•••••	
22	Flat Clamp	AEC1879
23	J120 5P Housing Wire	ADX2776
24	J110 3P Housing Wire	ADX2704
25	J108 8P Housing Wire	ADX2811
26	J101 Wire F	ADX2726
27	J102 Wire E	ADX2782
28	J103 13P Housing Wire	ADX2700
29	J116 4P Housing SP Wire	ADX2756
30	J109 Wire G	ADX2743
31	Binder	AEC-093
32	J117 4P Housing SP Wire	ADX2756

2.7 MIDDLE LAYER SECTION (1)

A



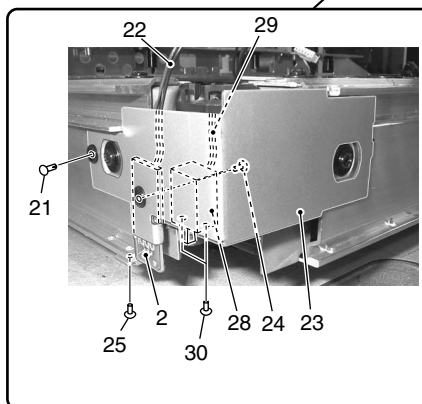
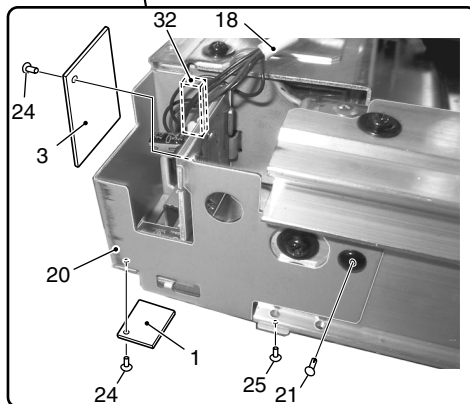
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MIDDLE LAYER SECTION (1) parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	IR (P) Assy	AWZ6658
2	LED Assy	AWZ6655
3	FRONT KEY CONN Assy	AWZ6657
NSP 4	Sub Frame L	ANG2455
NSP 5	Sub Frame R	ANG2456
6	FPC Cushion	AEB1370
NSP 7	Front Chassis V	ANA1661
8	Screw	AMZ30P060FZK
9	Screw	ABA1294
10	Screw	BMZ30P060FMC
11	V Cushion	AED1205
NSP 12	Card Spacer	AEC1902
13	Spacer B	AMR3300
14	Power Sheet	AMR3291
15	Rivet	BEC1066
16	Card Corner Holder	BEC1144
17	Niplocker	BEC1136
18	J113 Wire J	ADX2718
NSP 19	Front Chassis H	ANA1683
NSP 20	IR Holder	ANG2494
21	Nylon Rivet	AEC1671
22	J104 3P Housing Wire	ADX2732
NSP 23	Switch Holder	ANG2493
24	Screw	BMZ30P040FMC
25	Screw	ABZ30P050FZK
26	Ferrite Core (L6)	ATX1037
27	Ferrite Core Holder	AEC1818
⚠ 28	Power Switch (S1)	ASG1082
29	J106 Wire PC	ADX2825
30	Screw	BMZ30P060FZK
31	•••••	
32	Gascket R	ANK1695
33	Insulation Sheet C	AEC1927

A

B

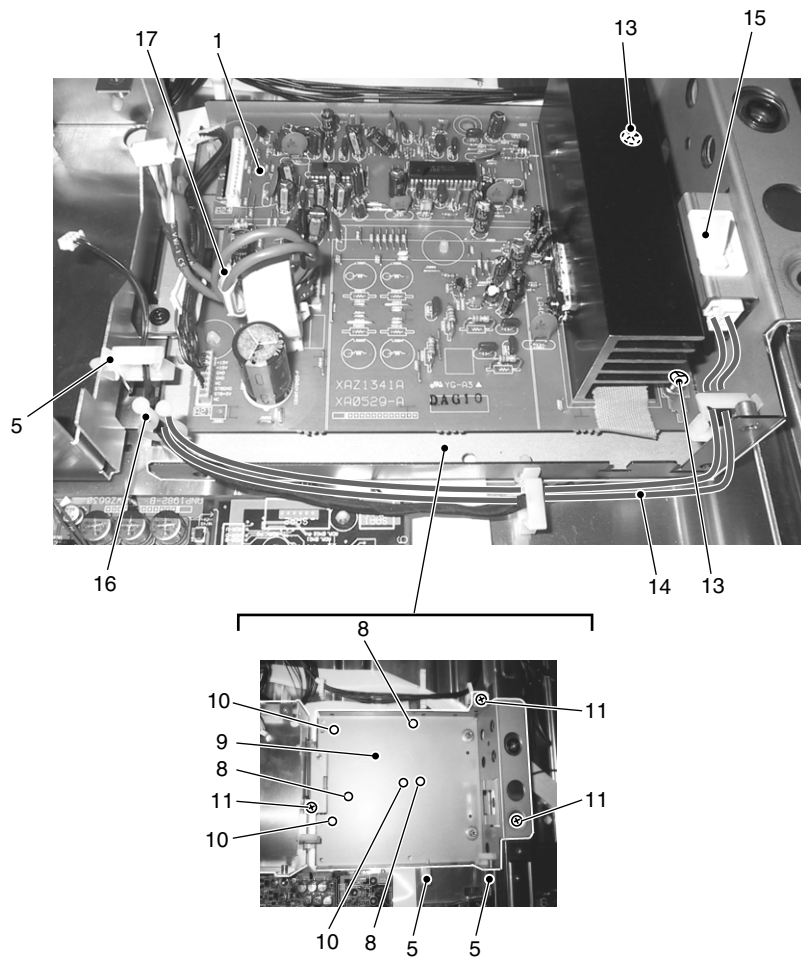
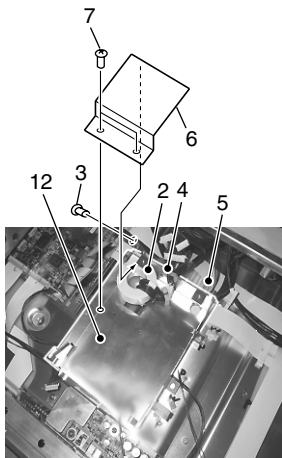
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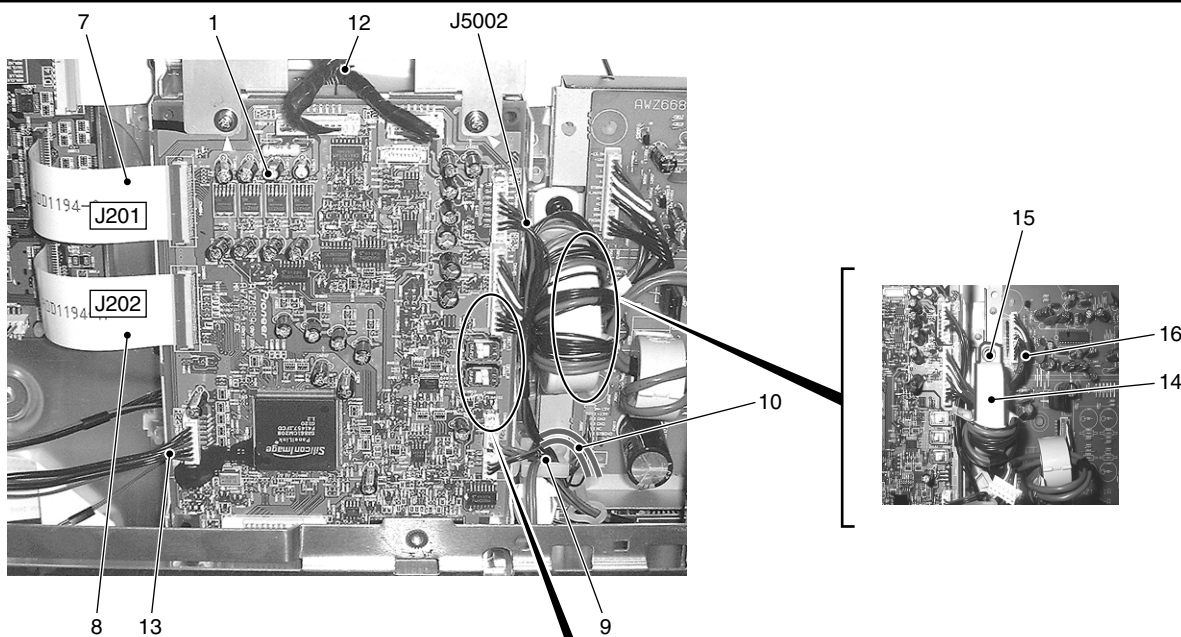
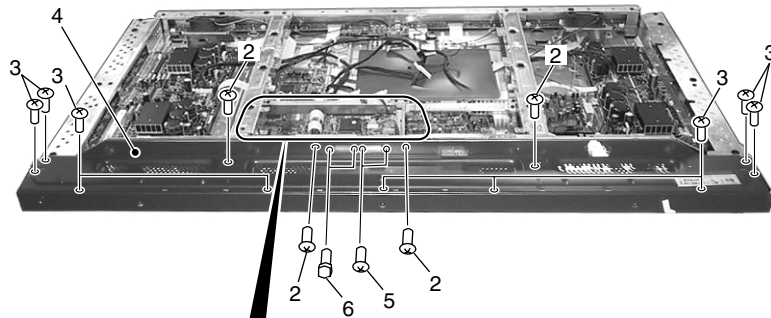
2.8 MIDDLE LAYER SECTION (2)



MIDDLE LAYER SECTION (2) parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	AUDIO AMP Assy	AWZ6687
2	Toroidal Core (L2)	ATX1042
3	Screw	ABA1294
4	Edge Saddle	AEC1571
5	Wire Saddle	AEC1745
6	IF Sheet	AMR3298
7	Nyron Rivet	AEP-211
8	PCB Spacer	AEC1570
9	Audio Base	ANA1687
10	Spacer	AEC1360
11	Screw	AMZ30P060FZK
12	IF Shield	ANA1675
13	Screw	PMB30P060FNI
14	J215 3P Housing Wire	ADX2757
15	Power Switch (S2)	ASG1089
16	Niplocker	BEC1136
17	J214 3P Housing Wire	ADX2735

2.9 UPPER LAYER SECTION (1)



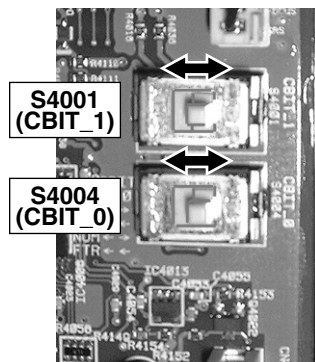
Caution in the MR INTERFACE Assy Replacement

Set the slide switches in accordance with applicable model when replacing the MR INTERFACE Assy.

	S4001 CBIT_1	S4004 CBIT_0
PDP-503P	→	→
PDP-503PE	←	→
PDP-503PU	→	→
PDP-503PG	←	→

Note 1 : When there is not S4004, set only S4001.

Note 2 : When there are not S4001 and S4004, setting is unnecessary.



UPPER LAYER SECTION (1) parts List

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	MR INTERFACE Assy	AWZ6699
2	Screw	AMZ30P060FZK
3	Screw	TBZ40P080FZK
4	Terminal Panel P	ANG2537
5	Screw	PMZ26P080FZK
6	Hexagonal Head Screw	BBA1051
7	J201 Flexible Flat Cable	ADD1194
8	J202 Flexible Flat Cable	ADD1194
9	J104 3P Housing Wire	ADX2732
10	J214 3P Housing Wire	ADX2735
11	•••••	
12	J118 Wire P	ADX2765
13	J113 Wire PJ	ADX2718
14	Toroidal Core (L3)	ATX1042
15	Screw	ABA1294
16	J111 14P Housing Wire	ADX2730

2.10 UPPER LAYER SECTION (2)

A

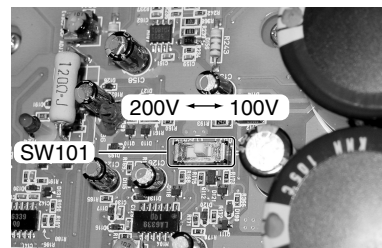
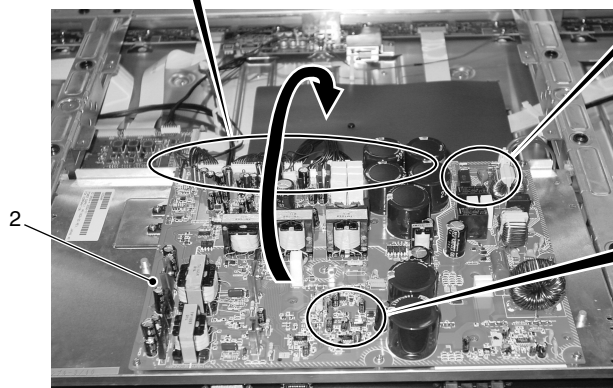
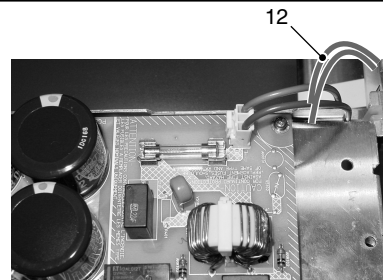
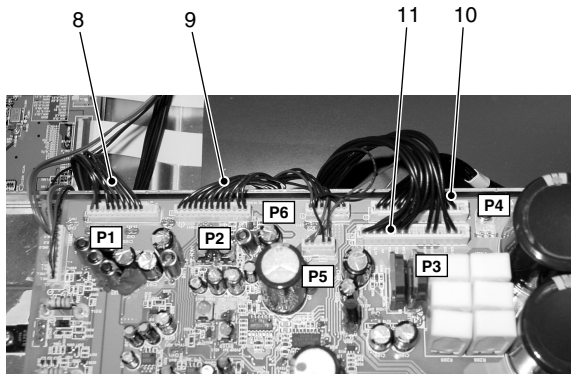
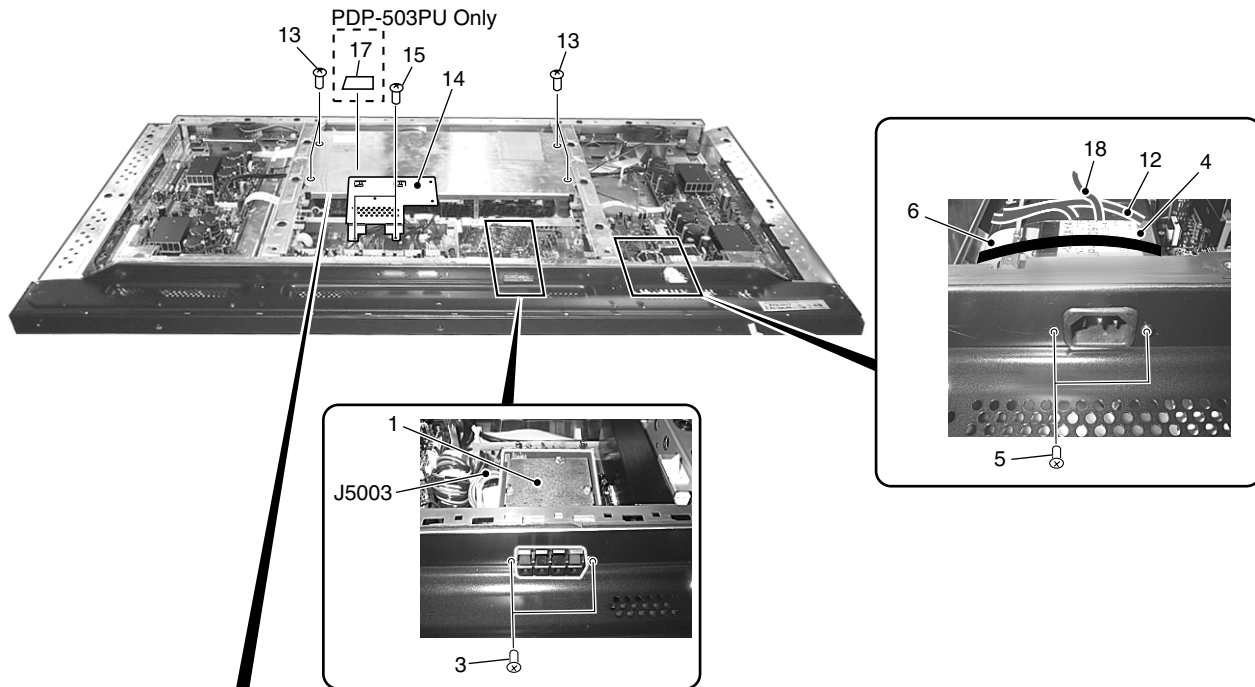
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UPPER LAYER SECTION (2) parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	SP TERMINAL Assy	AWZ6688	11	J102 Wire E	ADX2782
2	SW Power Supply Module	AXY1059	12	J105 Wire PB	ADX2824
3	Screw	BPZ30P080FZK	13	Screw	AMZ30P060FZK
4	AC Inlet with Noise Filter (CN1)	AKP1223	14	IF Earth Metal	ANA1690
5	Screw	BMZ30P060FZK	15	Screw	PMB30P060FNI
6	Ferrite Core (L1)	ATX1032	16	•••••	
7	•••••		17	Solder Warning Label	See Contrast table (2)
8	J118 Wire P	ADX2765	18	J114 Earth Wire	ADX2709
9	J101 13P Housing Wire	ADX2726			
10	J103 13P Housing Wire	ADX2700			

(2) CONTRAST TABLE

PDP-503PU/KUC, PDP-503PE/WYVI6, PDP-503PE/WYVI6XK and PDP-503PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-503PU/KUC	PDP-503PE/ WYVI6	PDP-503PE/ WYVI6XK	PDP-503PG/ TLDPKBR
	17	Solder Warning Label	AAX2644	Not used	Not used	Not used

2.11 FRONT CASE SECTION

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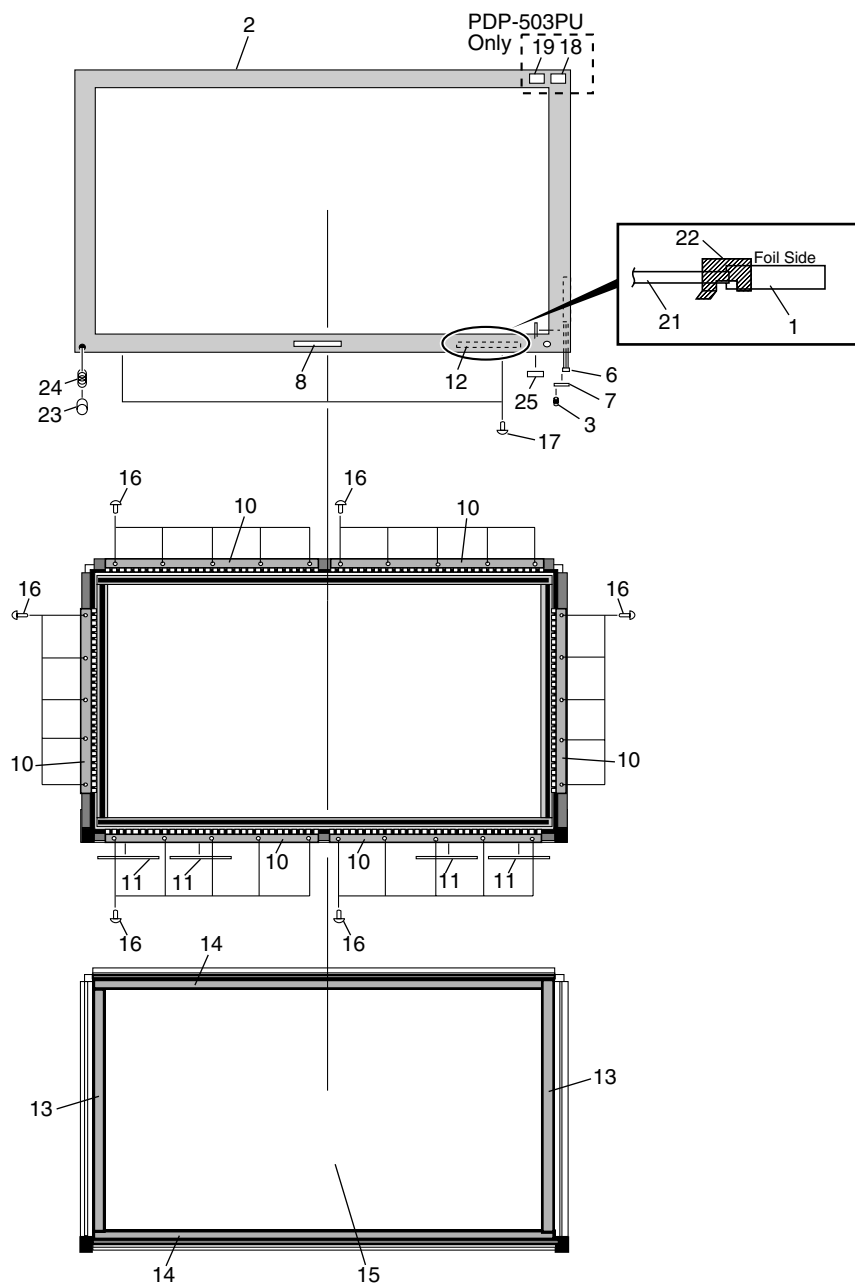
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FRONT CASE SECTION parts List

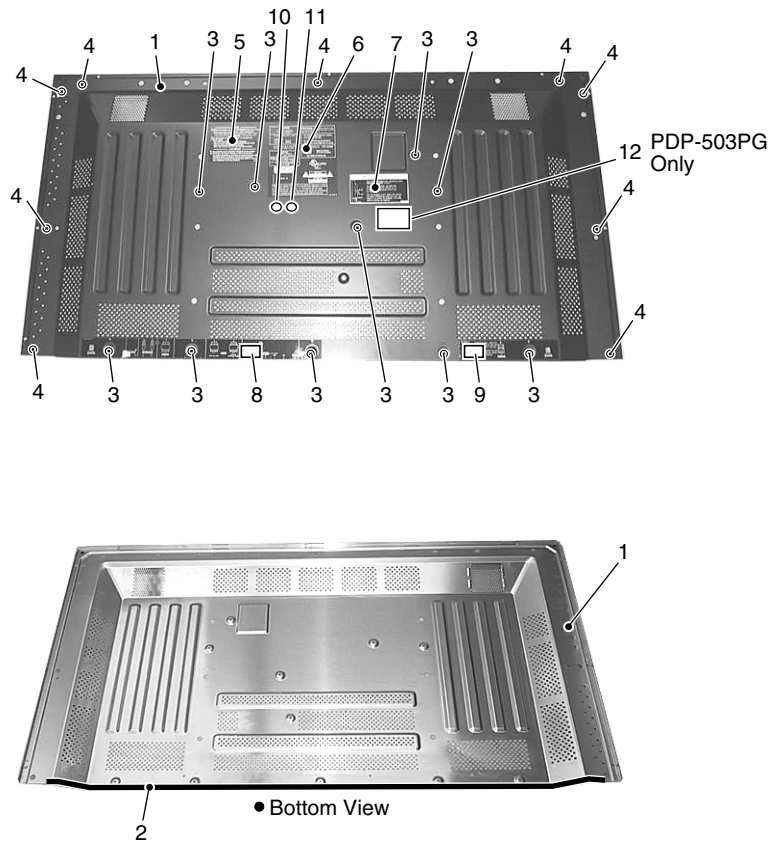
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	FRONT KEY Assy	AWZ6656	14	Panel Cushion H	AED1198
2	Front Case 50 (P)	AMB2722	15	Protect Panel Assy	AMR3304
3	Rivet	AEC1877			
4	•••••		16	Screw	ABZ30P050FZK
5	•••••		17	Screw	VMZ30P060FZK
			18	Energy Star Label	See Contrast table (2)
⚠ 6	Ferrite Core (L5)	ATX1043	19	HDTV Label	See Contrast table (2)
7	Lead Cover (P)	AMR3341	20	•••••	
8	Pioneer Badge	AAM1091			
9	•••••		21	J213 Flexible Flat Cable	ADD1193
NSP 10	Panel Holder	ANG2508	NSP 22	Flexible Seal (P)	AEH1052
			23	Power Button	AAD4113
11	Front Spacer	AEC1896	24	Coil Spring	ABH1108
12	•••••		25	Serial Sheet	AAX2609
13	Panel Cushion V	AED1199			

(2) CONTRAST TABLE

PDP-503PU/KUC, PDP-503PE/WYVI6, PDP-503PE/WYVI6XK and PDP-503PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-503PU/KUC	PDP-503PE/ WYVI6	PDP-503PE/ WYVI6XK	PDP-503PG/ TLDPKBR
	18	Energy Star Label	AAX2865	Not used	Not used	Not used
	19	HDTV Label	AAX2891	Not used	Not used	Not used

2.12 REAR SECTION



REAR SECTION parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Rear Case 50P	AZN2512	8	Terminal Display Label P Gray	AAX2929
2	Gascket L50	ANK1701	9	Terminal Display Label L Gray	See Contrast table (2)
3	Screw	AMZ30P060FZK	10	Label (Blue 8)	AAX2786
4	Screw	TBZ40P080FZK	11	Label (Green 8)	AAX2955
5	Cleaning Label Gray	AAX2926	12	MIC Label	See Contrast table (2)
NSP 6	Model Label	See Contrast table (2)			
7	Bolt Caution Label Gray	AAX2928			

(2) CONTRAST TABLE

PDP-503PU/KUC, PDP-503PE/WYVI6, PDP-503PE/WYVI6XK and PDP-503PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-503PU/KUC	PDP-503PE/ WYVI6	PDP-503PE/ WYVI6XK	PDP-503PG/ TLDPKBR
NSP	6	Model Label	AAL2423	AAL2422	AAL2422	AAL2438
	9	Terminal Display Label L Gray	AAX2930	AAX2935	AAX2935	AAX2930
	12	MIC Label	Not used	Not used	Not used	AAX2948

2.13 PDP SERVICE ASSY 503 (AWU1068)

PDP SERVICE ASSY 503 (AWU1068) parts List

Mark No.	Description	Part No.	
	Panel Chassis (50) Assy	AWU1066	
NSP	Front Chassis V	ANA1661	
NSP	Front CHassis H (W)	ANA1679	
NSP	Front Chassis H	ANA1683	
NSP	Sub Frame L	ANG2499	
NSP	Sub Frame R	ANG2500	
	Scan IC Spring (L)	ABK1026	
	Scan IC Spring (R)	ABK1027	
NSP	Metal Fitting	ANG2464	
	FPC Cushion 50	AEB1370	
NSP	PCB Spacer	AEC1121	
	Locking Card Spacer	AEC1736	
	Circuit Board Spacer	AEC1872	
	Circuit Board Spacer	AEC1873	
	Spacer	AEC1896	
NSP	Card Spacer	AEC1902	
	Wire Saddle	AEC1904	
	Sheet C	AEC1927	
	Panel Cushion H	AED1198	
	Panel Cushion V	AED1199	
	V Cushion	AED1205	
	Insulation Sheet	AMR3263	
	Scan Insulation Sheet	AMR3271	
	Insulating Sheet	AMR3343	
	Niplocker	BEC1136	
NSP	Card Corner Holder	BEC1144	
	Drive Voltage Label	ARW1097	
	Screw	ABA1283	
	Screw	ABA1294	
	Screw	ABZ30P060FMC	
	Screw	BMZ30P060FMC	
	Screw	PMB30P060FNI	
	Screw	VBB30P100FNI	
	Panel Caution Sheet	ARM1217	
	Screw	ABA1259	
	Corner Pad	AHA2203	
	Corner Pad	AHA2204	
	Upper Carton	AHD3119	
	Under Carton	AHD3120	
	Packing Sheet	AHG1291	
	Static Plate	AHK1012	
	Washer	WB80FZB	

2.14 PANEL CHASSIS (50) ASSY (AWU1066)

PANEL CHASSIS (50) ASSY (AWU1066) parts List

A	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
	NSP	SCAN FUKUGO ASSY	AWV1968	*
	NSP	ADDRESS FUKUGO ASSY	AWV1900	*
	NSP	Address Module (IC1 - IC40)	AXF1114	
	NSP	FPC (0003)	ADY1065	
	NSP	FPC (J0001)	ADY1066	
B	NSP	1..Chassis Assy	ANA1711	
	NSP	2..Chassis	ANA1655	
	NSP	2..Base Chassis	ANA1656	
	NSP	2..Scan Heatsink	ANH1609	
	NSP	2..Corner Angle A	ANG2457	
	NSP	2..Corner Angle B	ANG2458	
		2..Seet A	AEC1923	
		2..Seet B	AEC1924	
	NSP	2..Tube Cover	AMR3262	
		2..Rear Coner Label	AAX2862	
		2..Silicone Sheet 50	AEH1037	
		2..Adhesive Tape 50	AEH1038	
		2..Adhesive Tape B (50)	AEH1051	
	C	2..Panel Silicone Sheet	AEH1055	
		Pin Grommet	AEC1015	
		Scan Silicone Sheet	AEH1057	
	NSP	Protection Tape	AEH1059	
	NSP	Plasma Panel Assy	AAV1238	
		Screw	VBB30P100FNI	

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
D	1..SCAN FUKUGO ASSY	AWV1968
	2..SCAN (A) ASSY	AWZ6722
	2..SCAN (B) ASSY	AWZ6723
	2..X CONNECTOR (A) ASSY	AWZ6732
	2..X CONNECTOR (B) ASSY	AWZ6733
	2..BRIDGE A ASSY	AWZ6734
	2..BRIDGE B ASSY	AWZ6735
	2..BRIDGE C ASSY	AWZ6736
	2..BRIDGE D ASSY	AWZ6737
	2..CLAMP A ASSY	AWZ6738
	2..CLAMP B ASSY	AWZ6739
	2..CLAMP C ASSY	AWZ6740
	2..CLAMP D ASSY	AWZ6741
E	NSP	1..ADDRESS FUKUGO ASSY
	NSP	2..ADR CONNECT A ASSY
	NSP	2..ADR CONNECT B ASSY
	NSP	2..ADR CONNECT C ASSY
	NSP	2..ADR CONNECT D ASSY
F		2..ADR RESONANCE ASSY

■ Caution in Replacement of Chassis Block

Please order the PDP Service Assy 503 (AWU1068) when replacing the Chassis block.

PDP Service Assy 503 is all common use parts for business, consumer models and module.

It is supplied by installing the Circuit Board Spacer (AEC1872) and the Wire Saddle (AEC1904) as follows.
Therefore it is necessary to remove them in accordance with the models.

Confirm the character of the seal carved near the parts, and then remove them.

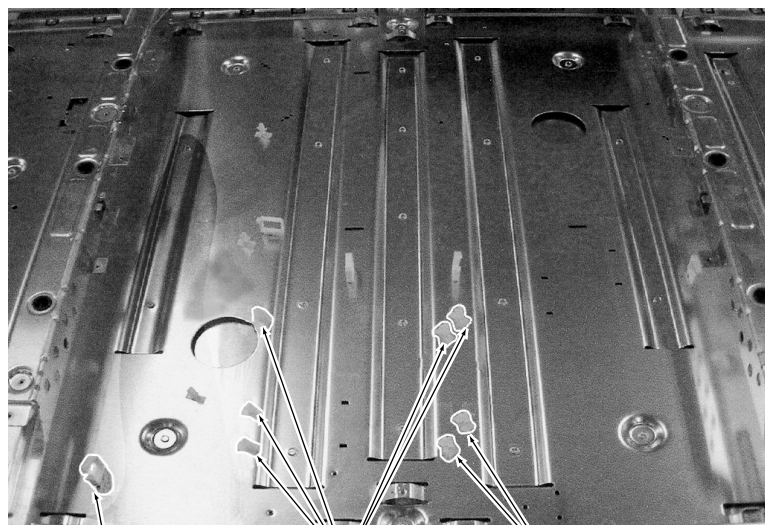
P : for Consumer models only

W : for Module only

PW : Common use for Consumer models and module

* In case of this unit, the parts that "W" is marked removes all.

PDP Service Assy 503 (AWU1068)



Wire Saddle
(AEC1904)
(There is marking of "P" nearby.)

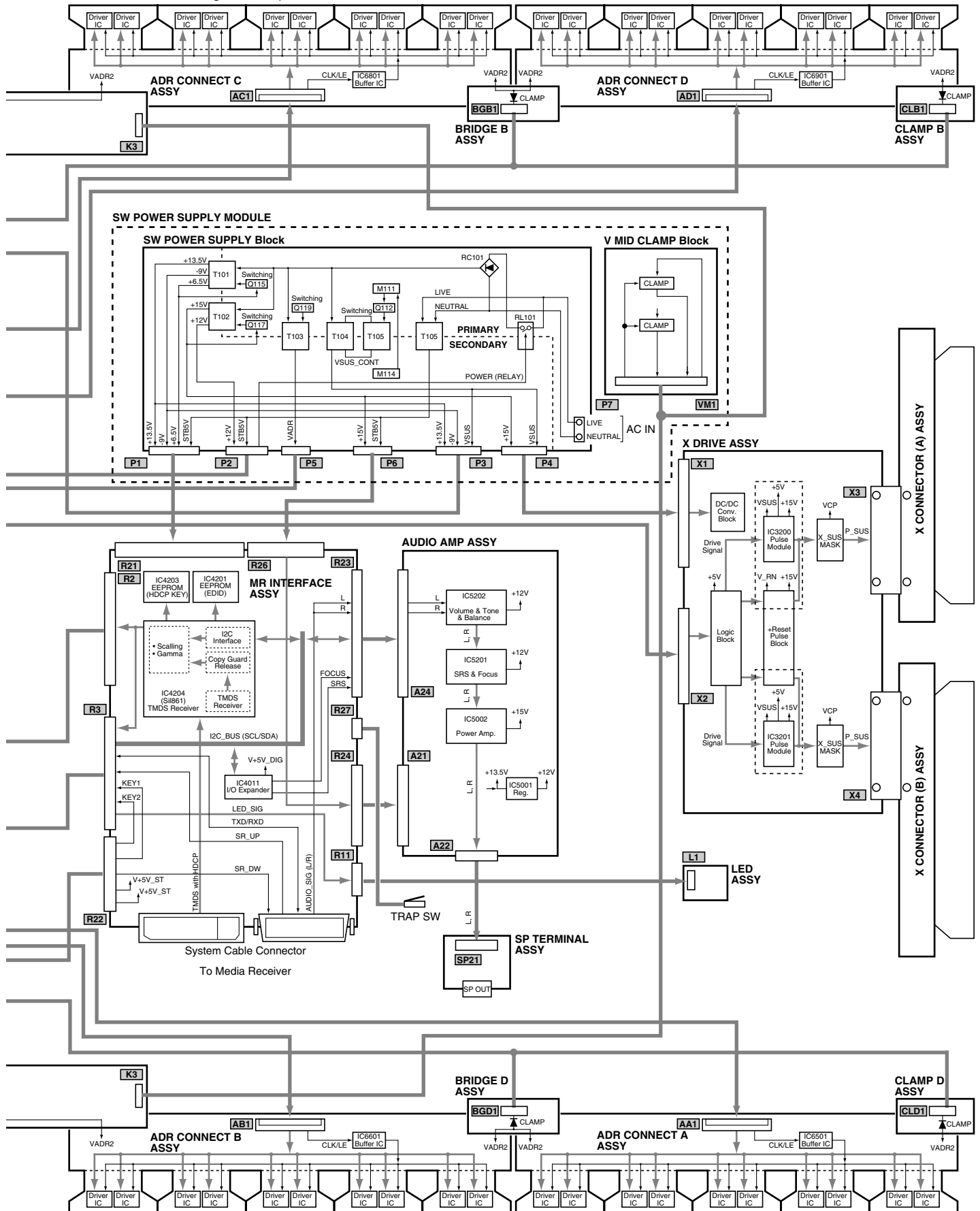
Circuit Board Spacer
(AEC1872)

Circuit Board Spacer
(AEC1872)

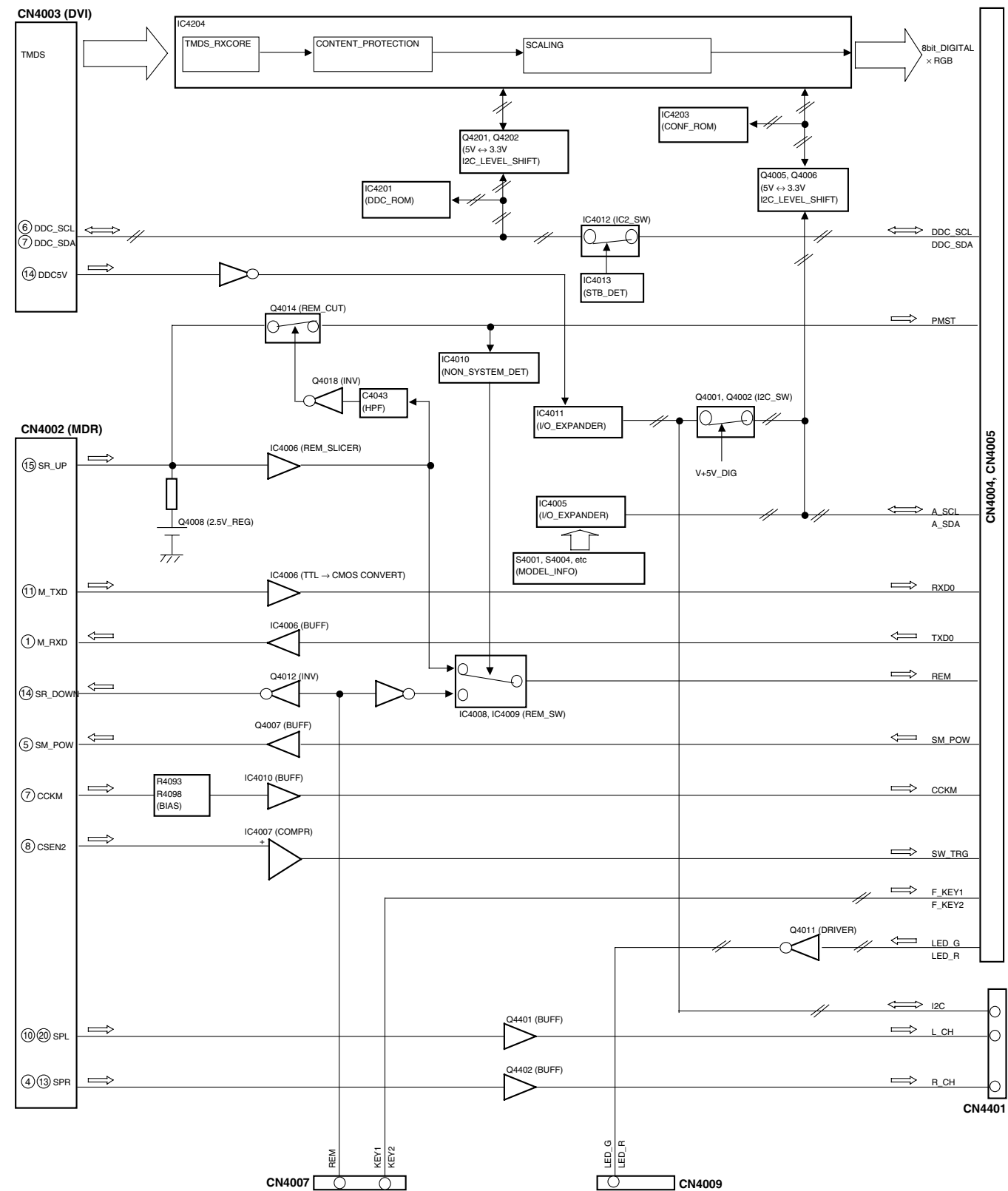
3.1.1 OVERALL DIAGRAM



Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.1.2 MR INTERFACE ASSY



Voltages

CN4002 (MDR Connector) (↔ Media Receiver)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	M_RXD	232C bus (PDP → MR)	0-5V swing square wave
2	GND		
3	SENCE	Connecting detection for MR	0.0V DC
4	SPR	Audio signal R ch	Analog audio signal wave
5	SMPOW	MR relay control	3.5V DC
6	GND		
7	CCKM	System activation detection	1.9V DC
8	CSEN2	System activation signal	5.0V DC
9	CSEN1	Not used	
10	SPL	Audio signal L ch	Analog audio signal wave
11	M_TXD	232C bus (MR → PDP)	0-3.3V swing square wave
12	GND		
13	SPR	Audio signal R ch	Analog audio signal wave
14	SR_DW	Remote control signal	5.0V DC
15	SR_UP	MDR connecting detection signal multiplex remote control signal	3.75V DC
16	GND		
17	FRASH_W	Not used	
18	SRST	Not used	
19	GND		
20	SPL	Audio signal L ch	Analog audio signal wave

CN4003 (DVI Connector) (↔ Media Receiver)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	RX2-	DVI signal	DVI signal
2	RX2+	DVI signal	DVI signal
3	GND		
4	NC		
5	NC		
6	DDC_SCL	I2C for DDC	0-5V swing square wave
7	DDC_SDA	I2C for DDC	0-5V swing square wave
8	NC		
9	RX1-	DVI signal	DVI signal
10	RX1+	DVI signal	DVI signal
11	GND		
12	NC		
13	NC		
14	DDC_+5V	I2C power supply for DDC	5.0V DC
15	GND		
16	HPD	HOT_PLUG detection	5.0V DC
17	RX0-	DVI signal	DVI signal
18	RX0+	DVI signal	DVI signal
19	GND		
20	NC		
21	NC		
22	GND		
23	RXC+	DVI signal	DVI signal
24	RXC-	DVI signal	DVI signal

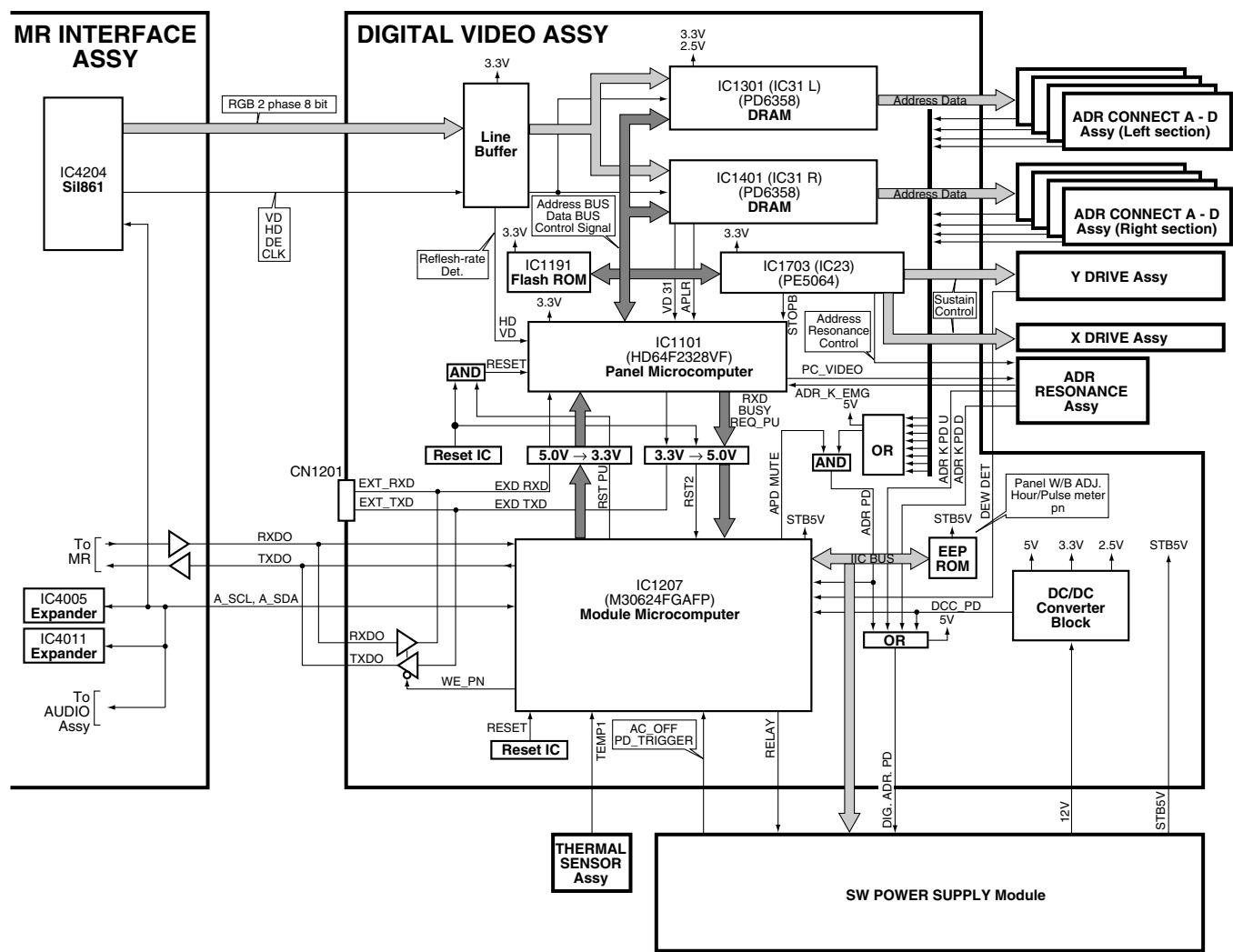
CN4004 (50P_FFC Connector) (↔ DIGITAL VIDEO Assy)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	GND		
2	GND		
3	NC		
4	NC		
5	NC		
6	NC		
7	BB0	8 bit video signal	0-3.3V swing square wave
8	BA0	8 bit video signal	0-3.3V swing square wave
9	BB1	8 bit video signal	0-3.3V swing square wave
10	BA1	8 bit video signal	0-3.3V swing square wave
11	BB2	8 bit video signal	0-3.3V swing square wave
12	BA2	8 bit video signal	0-3.3V swing square wave
13	BB3	8 bit video signal	0-3.3V swing square wave
14	BA3	8 bit video signal	0-3.3V swing square wave
15	BB4	8 bit video signal	0-3.3V swing square wave
16	BA4	8 bit video signal	0-3.3V swing square wave
17	BB5	8 bit video signal	0-3.3V swing square wave
18	BA5	8 bit video signal	0-3.3V swing square wave
19	BB6	8 bit video signal	0-3.3V swing square wave
20	BA6	8 bit video signal	0-3.3V swing square wave
21	BB7	8 bit video signal	0-3.3V swing square wave
22	BA7	8 bit video signal	0-3.3V swing square wave
23	GND		
24	GND		
25	NC		
26	NC		
27	NC		
28	NC		
29	GB0	8 bit video signal	0-3.3V swing square wave
30	GA0	8 bit video signal	0-3.3V swing square wave
31	GB1	8 bit video signal	0-3.3V swing square wave
32	GA1	8 bit video signal	0-3.3V swing square wave
33	GB2	8 bit video signal	0-3.3V swing square wave
34	GA2	8 bit video signal	0-3.3V swing square wave
35	GB3	8 bit video signal	0-3.3V swing square wave
36	GA3	8 bit video signal	0-3.3V swing square wave
37	GB4	8 bit video signal	0-3.3V swing square wave
38	GA4	8 bit video signal	0-3.3V swing square wave
39	GB5	8 bit video signal	0-3.3V swing square wave
40	GA5	8 bit video signal	0-3.3V swing square wave
41	GB6	8 bit video signal	0-3.3V swing square wave
42	GA6	8 bit video signal	0-3.3V swing square wave
43	GB7	8 bit video signal	0-3.3V swing square wave
44	GA7	8 bit video signal	0-3.3V swing square wave
45	GND		
46	GND		
47	NC		
48	NC		
49	GND		
50	GND		

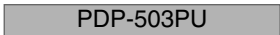
CN4005 (50P_FFC Connector) (↔ DIGITAL VIDEO Assy)

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	NC		
2	NC		
3	NC		
4	NC		
5	RB0	8 bit video signal	0-3.3V swing square wave
6	RA0	8 bit video signal	0-3.3V swing square wave
7	RB1	8 bit video signal	0-3.3V swing square wave
8	RA1	8 bit video signal	0-3.3V swing square wave
9	RB2	8 bit video signal	0-3.3V swing square wave
10	RA2	8 bit video signal	0-3.3V swing square wave
11	RB3	8 bit video signal	0-3.3V swing square wave
12	RA3	8 bit video signal	0-3.3V swing square wave
13	RB4	8 bit video signal	0-3.3V swing square wave
14	RA4	8 bit video signal	0-3.3V swing square wave
15	RB5	8 bit video signal	0-3.3V swing square wave
16	RA5	8 bit video signal	0-3.3V swing square wave
17	RB6	8 bit video signal	0-3.3V swing square wave
18	RA6	8 bit video signal	0-3.3V swing square wave
19	RB7	8 bit video signal	0-3.3V swing square wave
20	RA7	8 bit video signal	0-3.3V swing square wave
21	GND		
22	CLK	Clock	0-3.3V swing square wave (40MHz)
23	GND		
24	DE	Data enable	0-3.3V swing square wave (+ polarity)
25	GND		
26	HD	Horizontal sync. signal	0-3.3V swing square wave (- polarity 48.4kHz)
27	GND		
28	VD	Vertical sync. signal	0-3.3V swing square wave (- polarity 60.0Hz)
29	GND		
30	A_SCL	I2C bus	0-5V swing square wave
31	F_KEY1	Front key signal 1	5.0V DC
32	PMST	MDR connection Detect signal	3.75V DC
33	SMPOW	MRrelay control	5.0V DC
34	A_MUTE	Audio mute	0.0V DC
35	CCKM	System activation detect	1.9V DC
36	M_STATE	Si1861 I2C bus master information	0.0V DC
37	SW_STC	Not used	
38	A_NG	Not used	
39	SW_TRG	System activation signal	5.0V DC
40	F_KEY2	Front key signal 2	5.0V DC
41	A_SDA	I2C bus	0-5V swing square wave
42	*LED_G	Green LED control signal	0.0V DC
43	TXD0	232C bus	0-5V swing square wave
44	*LED_R	Red LED control signal	5.0V DC
45	RXD0	232C bus	0-5V swing square wave
46	DDC_SCL	I2C for DDC	0-5V swing square wave
47	REM	Remote control signal	5.0V DC
48	DDC_SDA	I2C for DDC	0-5V swing square wave
49	GND		
50	GND		

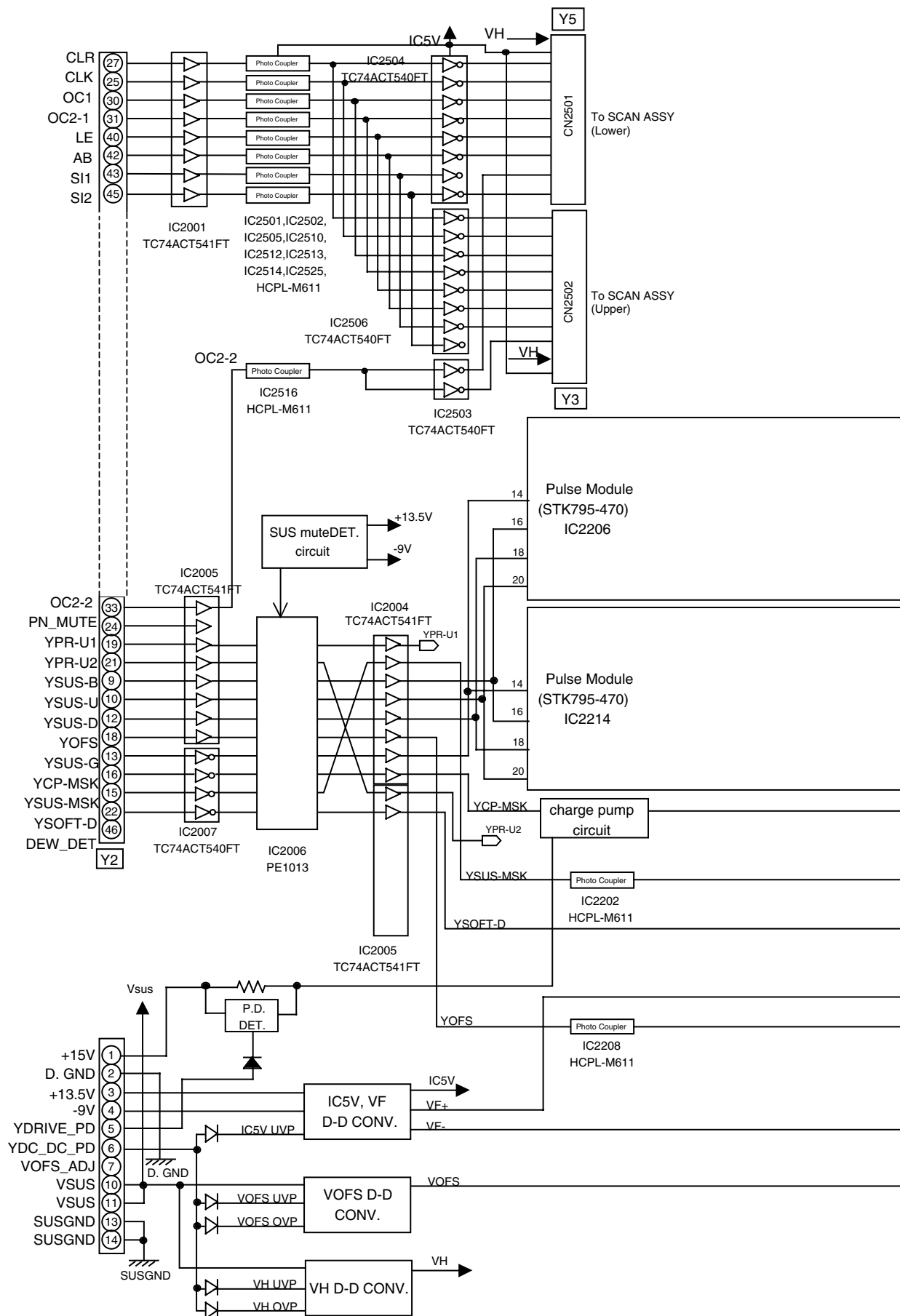
3.1.3 DIGITAL VIDEO ASSY

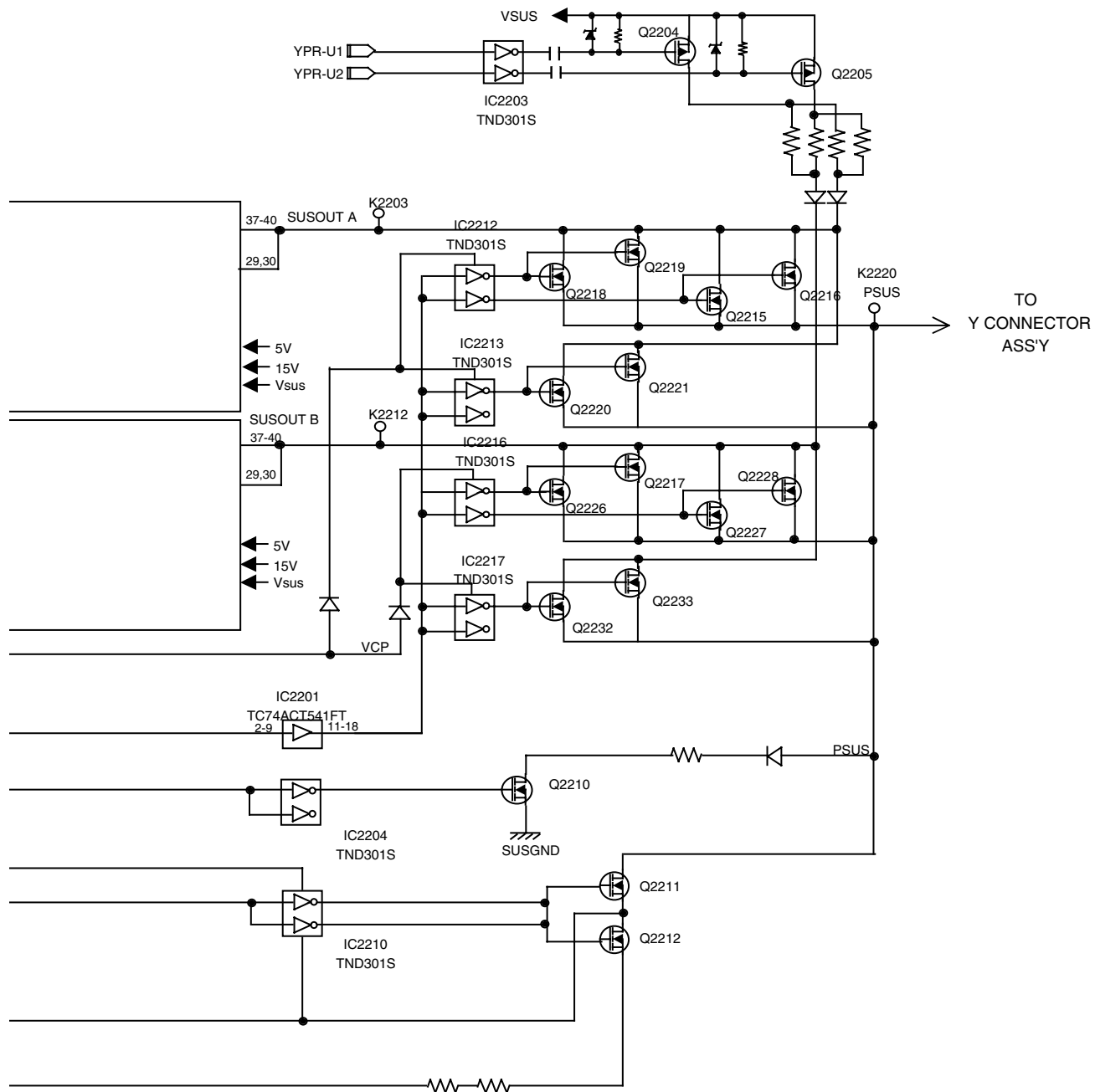


A ■
B ■
C ■
D ■
E ■
F ■



3.1.5 Y DRIVE ASSY





3.1.6 SUB ADDRESS A and B ASSYS

A

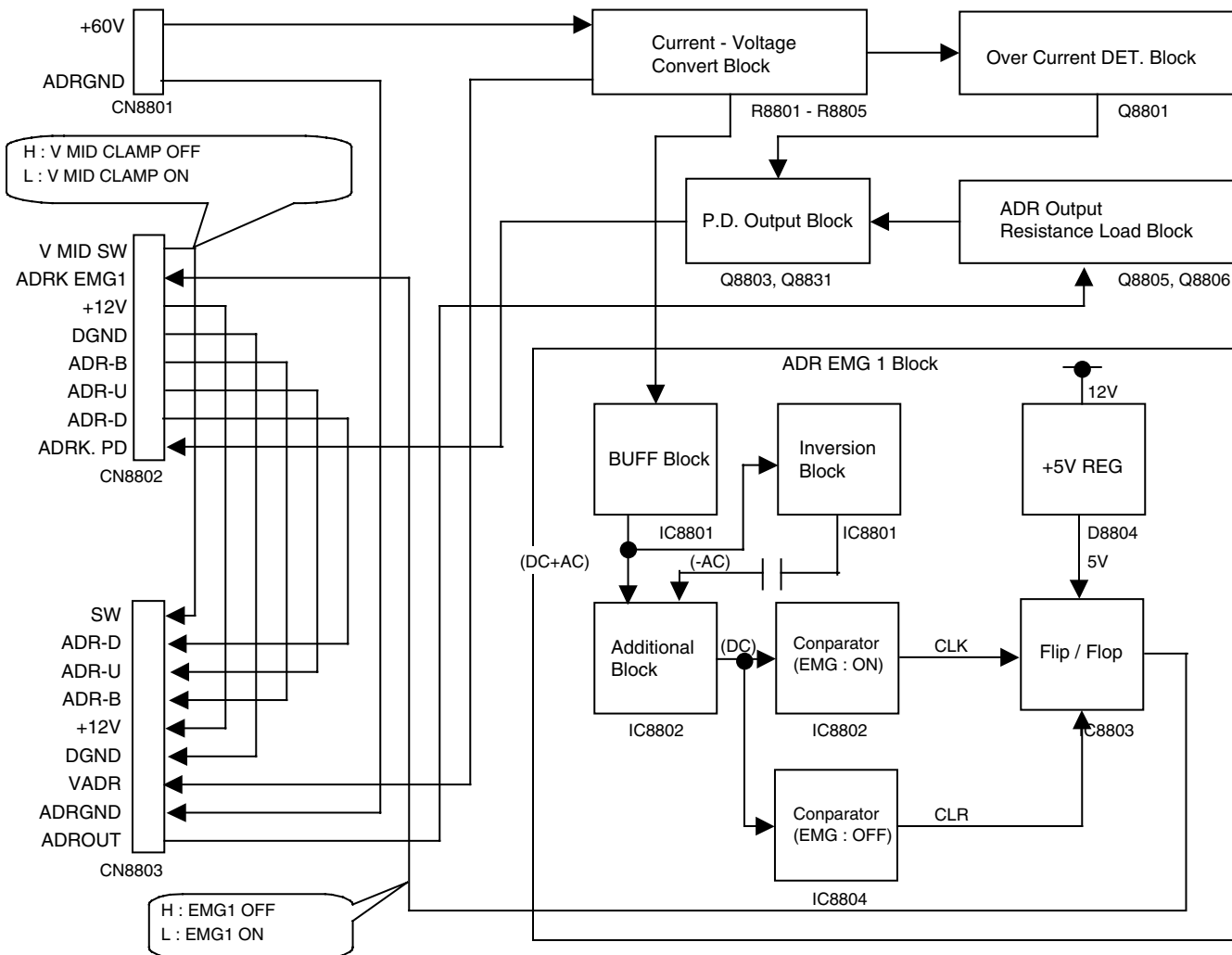
B

C

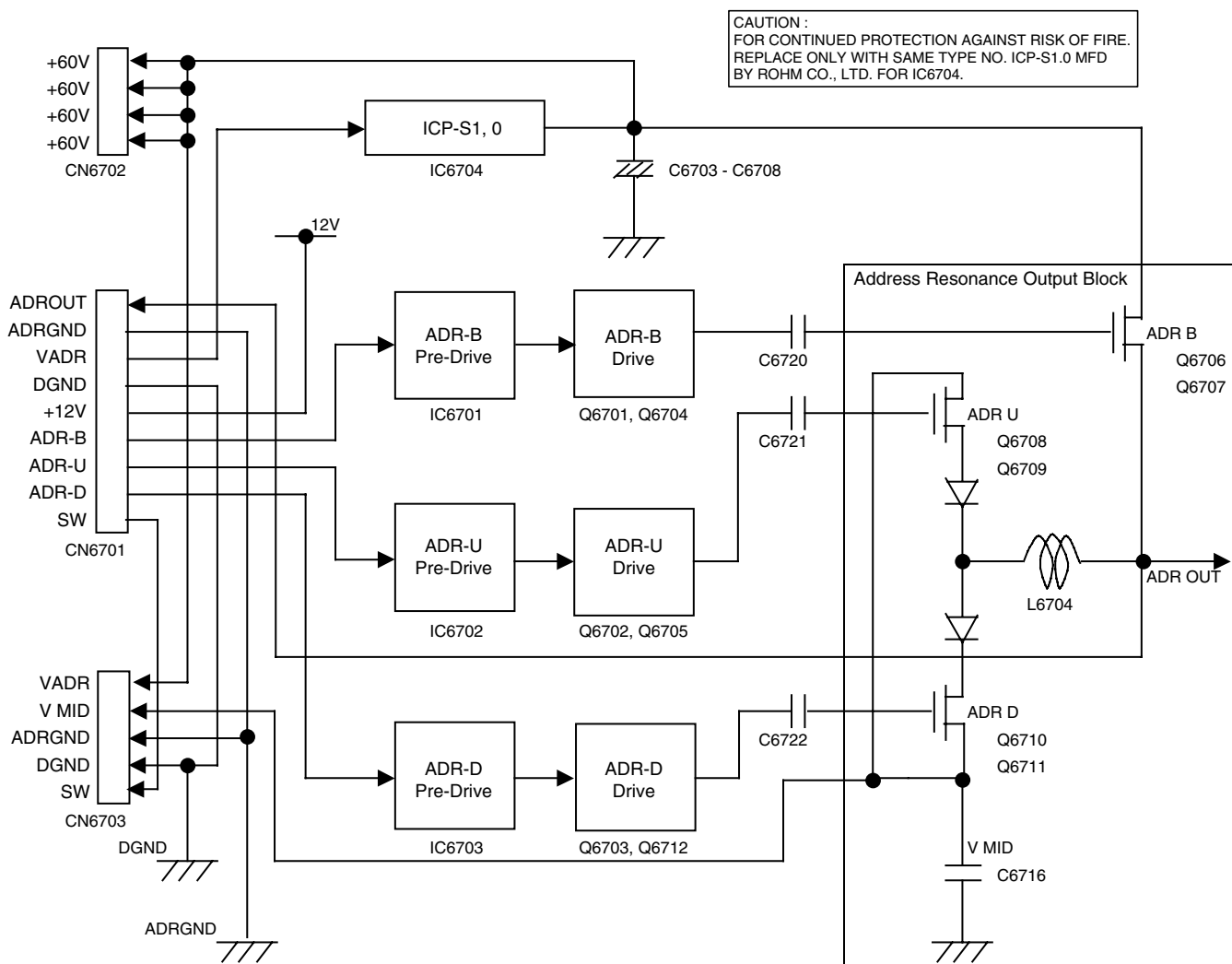
D

E

F

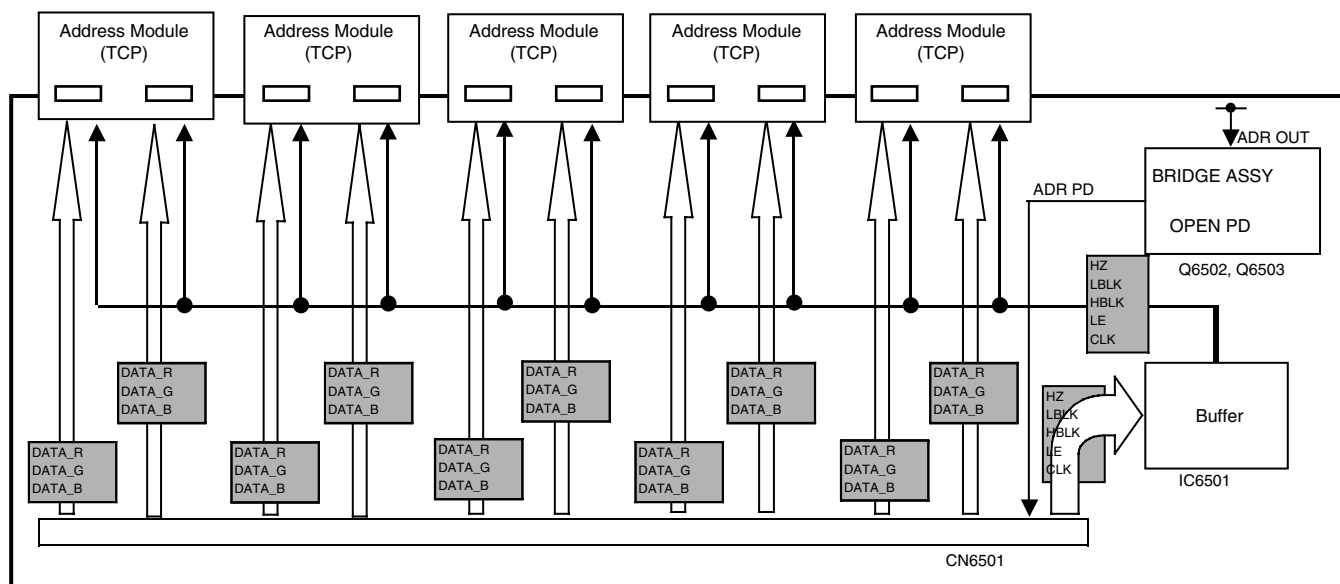


3.1.7 ADR RESONANCE ASSY



3.1.8 ADR CONNECT A, B, C and D ASSYS

A



B

C

D

E

F

3.1.9 AUDIO AMP and SP TERMINAL ASSYS

AUDIO AMP ASSY

IC5202 (CXA2021S)

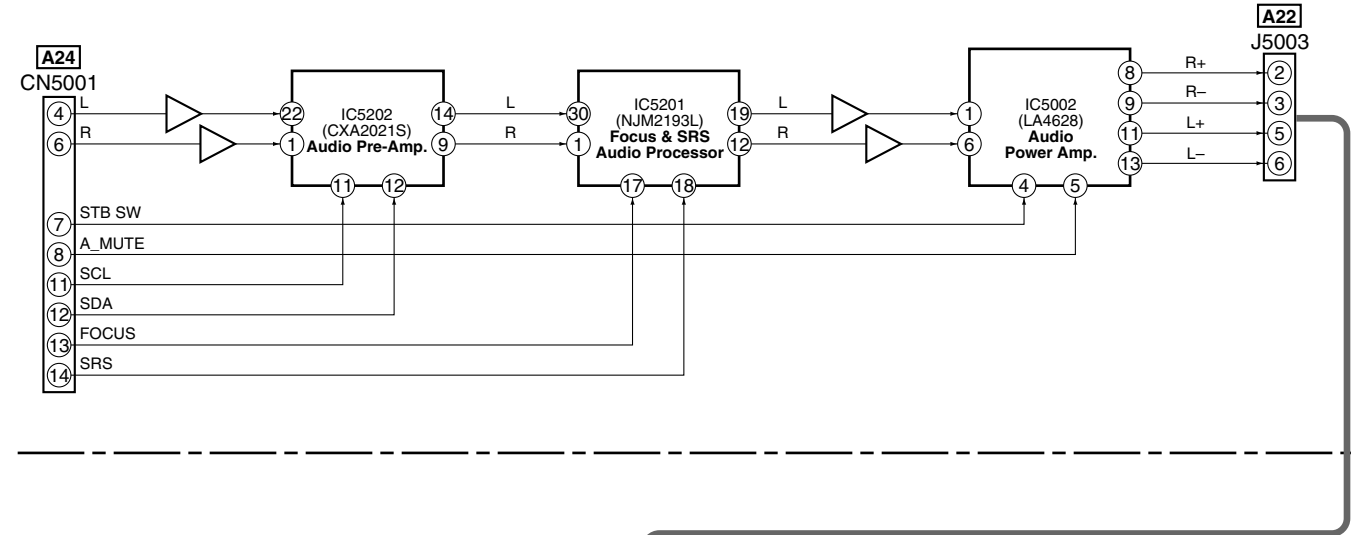
No.	Voltage (V)	No.	Voltage (V)
1	5.9	12	5.25
2	0	13	1.73
3	5.95	14	5.95
4	5.94	15	5.92
5	5.98	16	5.91
6	6.02	17	5.93
7	6.02	18	5.92
8	7.38	19	5.94
9	5.95	20	5.95
10	1.55	21	11.91
11	5.24	22	5.9

IC5201 (NJM2193L)

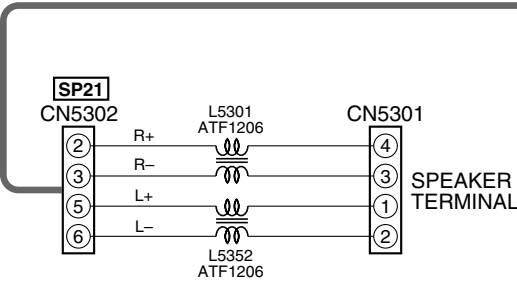
No.	Voltage (V)	No.	Voltage (V)
1	5.95	16	11.91
2	5.94	17	0
3	5.84	18	0
4	5.98	19	5.98
5	5.98	20	5.91
6	5.97	21	5.97
7	5.98	22	5.98
8	5.98	23	5.98
9	5.98	24	5.98
10	5.97	25	5.97
11	5.97	26	5.98
12	5.98	27	5.98
13	5.96	28	5.84
14	5.98	29	5.94
15	0	30	5.95

IC5002 (LA4628)

No.	Voltage (V)
1	1.6
2	7.5
3	0
4	3.37
5	2.29
6	1.6
7	1.97
8	7.3
9	7.3
10	0
11	7.3
12	0
13	7.3
14	15

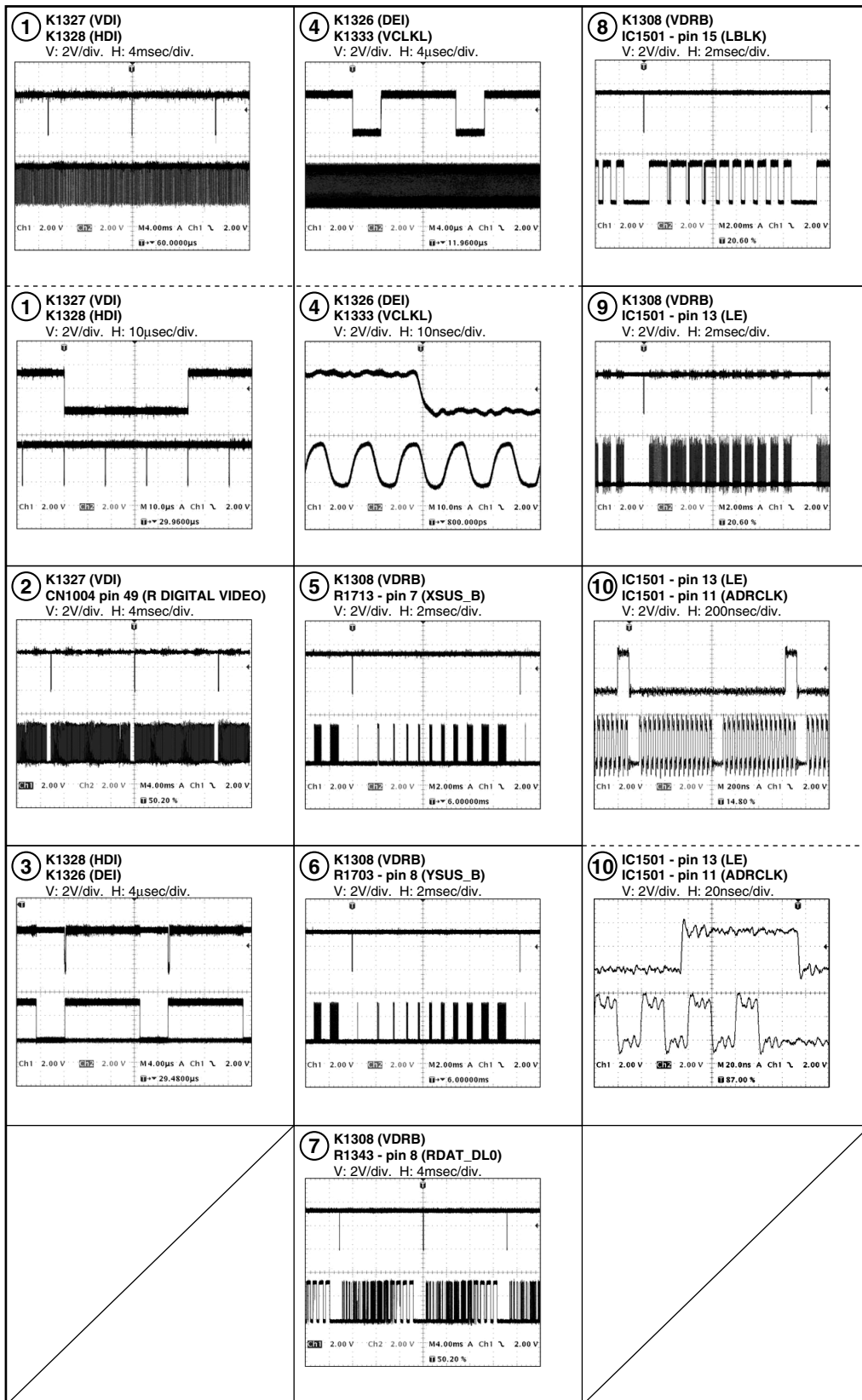


SP TERMINAL ASSY

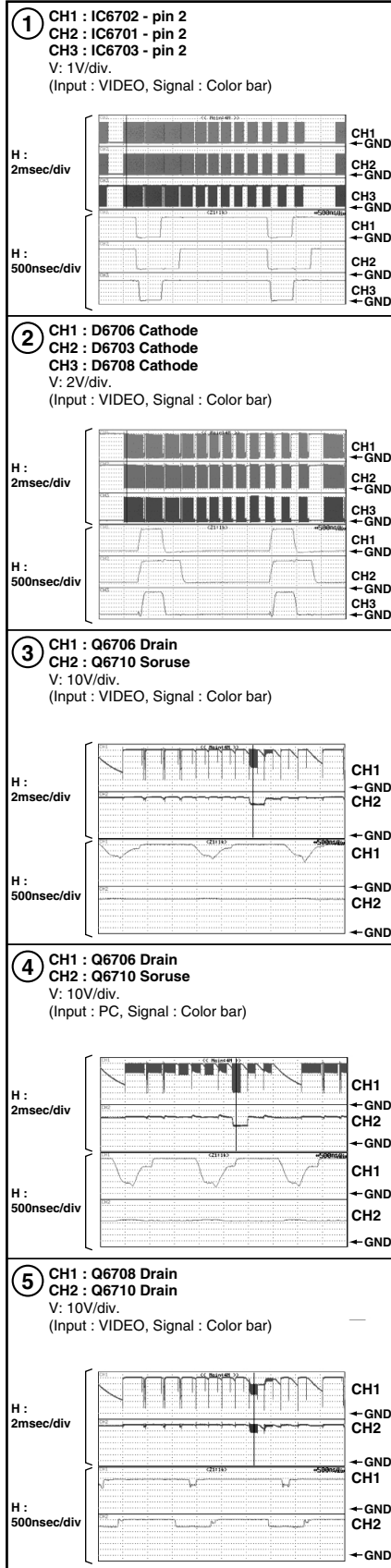


3.2 WAVEFORMS

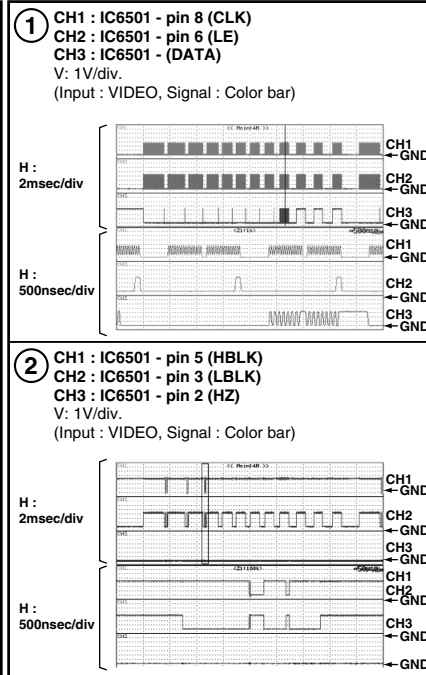
DIGITAL VIDEO ASSY



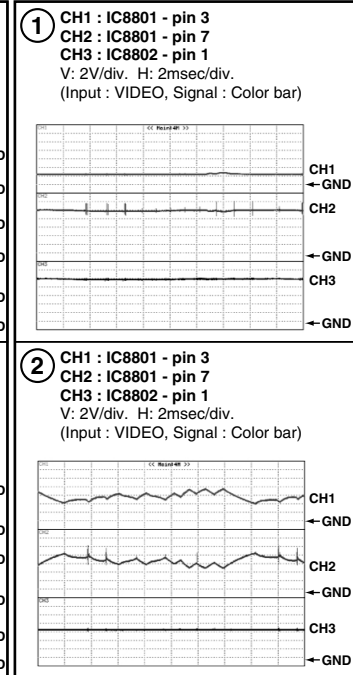
ADR RESONANCE ASSY



ADR CONNECT A - D ASSY



SUB ADDRESS A, B ASSY



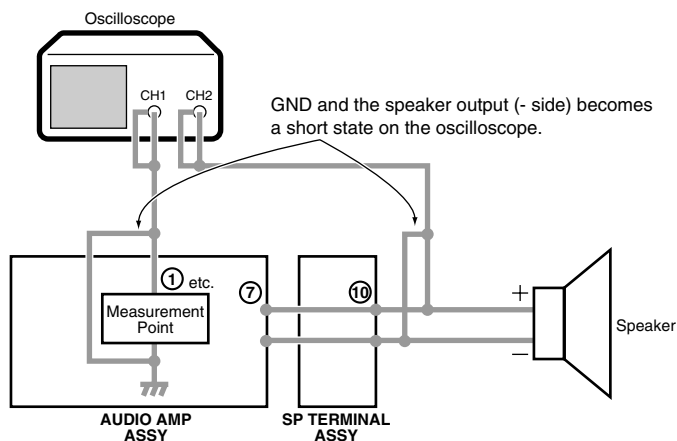
AUDIO SECTION

● Measurement condition

Video Input Signal : FULL FIELD COLOR-BAR
 Audio Input Signal : 1kHz Sine Wave 0.2Vrms
 Volume : 60 (MAX)
 AV Selection : STANDARD
 SRS : OFF
 FOCUS : OFF

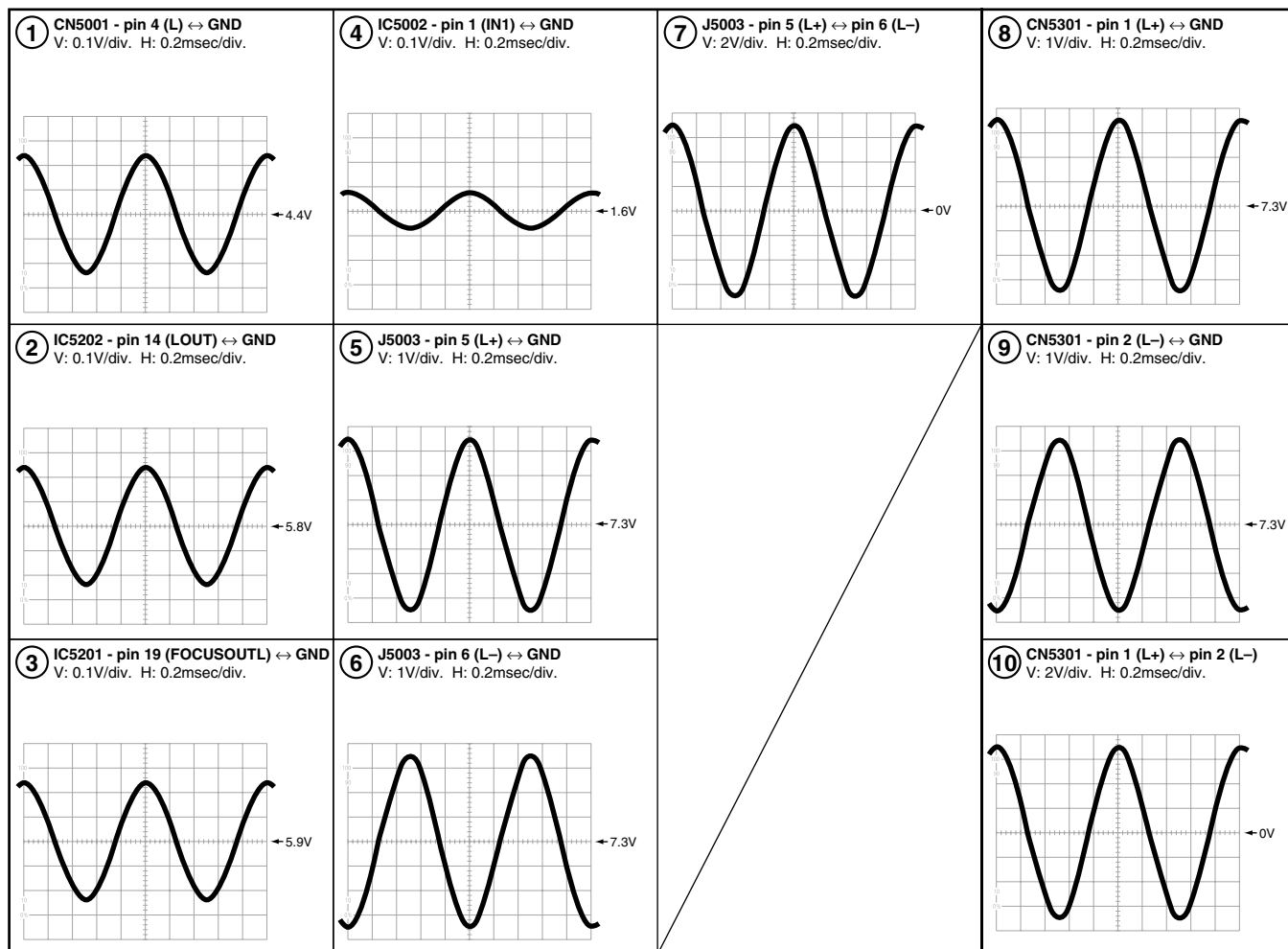
● Caution in the measurement

Audio Power Amp. (IC5002: LA4628) on the AUDIO AMP Assy is BTL system, and, as for the power amplifier and the speaker output, \pm poles becomes hot for the ground. Therefore be careful not to connect the measuring instrument as the following figures. (Power amplifier may be damaged.)



Wrong connection example

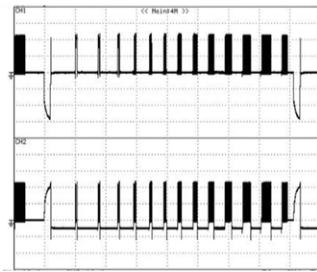
AUDIO AMP ASSY



Sustain Waveforms

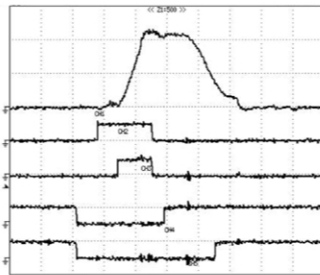
● Sustain Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 2msec/div.



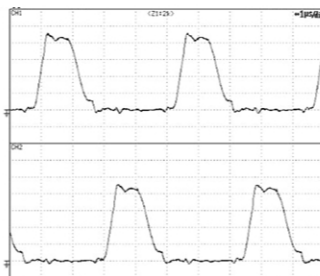
● Sustain Waveform

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 500nsec/div.
ch 2 : K2028 (YSUS_U) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 3 : K2027 (YSUS_B) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 4 : K2029 (YSUS_D) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.
ch 5 : K2037 (YSUS_G) - K2024 (DGND)
V: 10V/div. H: 500nsec/div.



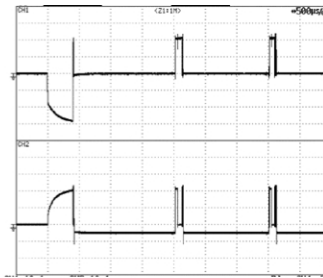
● Sustain Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 1μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 1μsec/div.



● Sustain Waveform (1 sub-field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 500μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 500μsec/div.



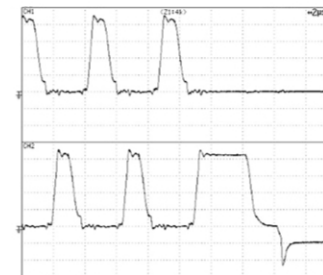
● Sustain Waveform (sustain) First half

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 5μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 5μsec/div.



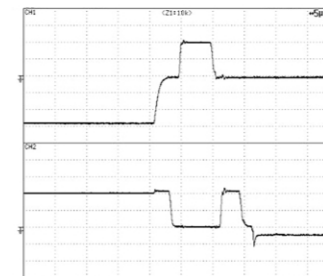
● Sustain Waveform (sustain) Last half

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 50V/div. H: 2μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 50V/div. H: 2μsec/div.



● Sustain Waveform (reset pulse)

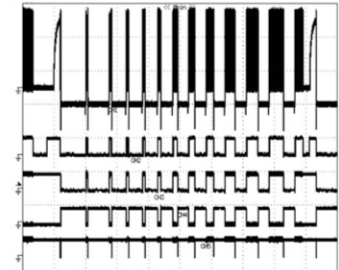
ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 5μsec/div.
ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 5μsec/div.



Drive Pulse Waveforms

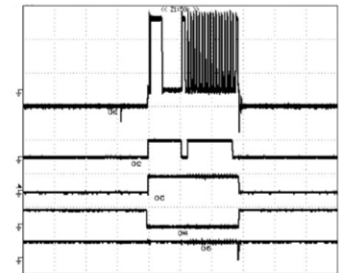
● Y Drive Pulse Control Waveform (1 field)

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K2039 (YCP_MSK) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 3 : K2040 (YSUS_MSK) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 4 : K2041 (OFS) - K2024 (DGND)
V: 10V/div. H: 2msec/div.
ch 5 : K2053 (SOFT_D) - K2024 (DGND)
V: 10V/div. H: 2msec/div.



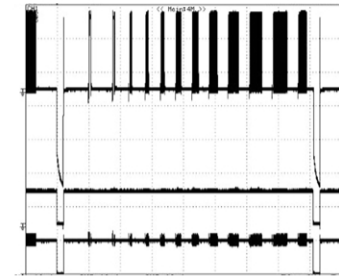
● Y Drive Pulse Control Waveform (1 sub-field)

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)
V: 100V/div. H: 50μsec/div.
ch 2 : K2039 (YCP_MSK) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.
ch 3 : K2040 (YSUS_MSK) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.
ch 4 : K2041 (OFS) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.
ch 5 : K2053 (SOFT_D) - K2024 (DGND)
V: 10V/div. H: 50μsec/div.




● X Drive Pulse Control Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)
V: 100V/div. H: 2msec/div.
ch 2 : K3017 (XCP_MSK) - K3005 (DGND)
V: 10V/div. H: 2msec/div.
ch 3 : K3015 (XSUS_MSK) - K3005 (DGND)
V: 5V/div. H: 2msec/div.



5. PCB PARTS LIST


NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.


● The  mark found on some component parts indicates the importance of the safety factor of the part.


Therefore, when replacing, be sure to use parts of identical designation.


● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

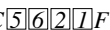
560 Ω \rightarrow 56 x 10^1 \rightarrow 561 RD1/4PU  J

47k Ω \rightarrow 47 x 10^3 \rightarrow 473 RD1/4PU  J

0.5 Ω \rightarrow R50 RN2H  K

1 Ω \rightarrow 1R0 RS1P  K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω \rightarrow 562 x 10^1 \rightarrow 5621 RN1/4PC  F

Mark No. Description Part No.

LIST OF ASSEMBLIES

NSP	1..SCAN FUKUGO ASSY	AWV1968
	2..SCAN (A) ASSY	AWZ6722
	2..SCAN (B) ASSY	AWZ6723
	2..X CONNECTOR (A) ASSY	AWZ6732
	2..X CONNECTOR (B) ASSY	AWZ6733
	2..BRIDGE A ASSY	AWZ6734
	2..BRIDGE B ASSY	AWZ6735
	2..BRIDGE C ASSY	AWZ6736
	2..BRIDGE D ASSY	AWZ6737
	2..CLAMP A ASSY	AWZ6738
	2..CLAMP B ASSY	AWZ6739
	2..CLAMP C ASSY	AWZ6740
	2..CLAMP D ASSY	AWZ6741

NSP	1..ADDRESS FUKUGO ASSY	AWV1900
NSP	2..ADR CONNECT A ASSY	AWZ6626
NSP	2..ADR CONNECT B ASSY	AWZ6627
NSP	2..ADR CONNECT C ASSY	AWZ6628
NSP	2..ADR CONNECT D ASSY	AWZ6629
	2..ADR RESONANCE ASSY	AWZ6750

1..X DRIVE ASSY AWV1984

NSP	1..HD Y DRIVE ASSY	AWV1987
	2..SUB ADDRESS A ASSY	AWZ6689
	2..SUB ADDRESS B ASSY	AWZ6690
	2..SENSOR ASSY	AWZ6696
	2..Y DRIVE ASSY	AWZ6746

1..DIGITAL VIDEO ASSY AWV1979

NSP	1..HD FUKUGO ASSY	AWV1952
	2..LED ASSY	AWZ6655
	2..FRONT KEY ASSY	AWZ6656
	2..FRONT KEY CONN ASSY	AWZ6657
	2..IR (P) ASSY	AWZ6658
	2..MR INTERFACE ASSY	AWZ6699

NSP	1..HD AUDIO ASSY	AWV1935
	2..AUDIO AMP ASSY	AWZ6687
	2..SP TERMINAL ASSY	AWZ6688

 1..SW POWER SUPPLY MODULE AXY1059

Mark No. Description Part No.

SCAN (B) ASSY

SEMICONDUCTORS

IC6001-IC6006	SN755864APZP
D6007	KU10N16

CAPACITORS

C6001, C6002, C6011, C6012	ACG1088
C6021, C6022, C6031, C6032	ACG1088
C6041, C6042, C6051, C6052	ACG1088
(0.1uF/250V)	
C6004, C6058	CCSRCH151J50

C6005, C6009, C6013, C6015	CCSRCH181J50
C6026, C6027, C6038, C6040, C6044	CCSRCH181J50
C6048, C6054, C6059	CCSRCH181J50
C6007, C6008, C6014, C6019, C6025	CCSRCH331J50
C6028, C6035, C6039, C6046, C6047	CCSRCH331J50

C6056, C6057	CCSRCH331J50
C6003, C6006, C6017, C6018, C6020	CCSRCH390J50
C6023, C6024, C6029, C6033, C6034	CCSRCH390J50
C6037, C6043, C6045, C6049, C6053	CCSRCH390J50
C6055, C6060, C6062-C6066	CCSRCH390J50

C6010, C6016, C6030, C6036, C6050	CKSRYF104Z16
C6061	CKSRYF104Z16

RESISTORS

R6007, R6012, R6021, R6028, R6032	RAB4C221J
R6040	RAB4C221J
Other Resistors	RS1/16S###J

OTHERS

CN6001 15P CONNECTOR	AKP1218
K6001, K6012, K6018, K6025, K6031	AKX9002
K6038, K6044 TEST PIN	AKX9002

SCAN (A) ASSY

SEMICONDUCTORS

IC6201-IC6206	SN755864APZP
D6207	KU10N16

CAPACITORS

C6201, C6202, C6212, C6213	ACG1088
C6222, C6223, C6232, C6233	ACG1088
C6242, C6243, C6252, C6253	ACG1088
(0.1uF/250V)	
C6203, C6259	CCSRCH151J50

C6206, C6210, C6215, C6219, C6227	CCSRCH181J50
-----------------------------------	--------------

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
C6229, C6236, C6240, C6244, C6246 C6255, C6260 C6208, C6209, C6217, C6218, C6226 C6230, C6238, C6239, C6245, C6250		CCSRCH181J50 CCSRCH181J50 CCSRCH331J50 CCSRCH331J50
C6257, C6258 C6204, C6205, C6207, C6214, C6216 C6220, C6224, C6225, C6231 C6234, C6235, C6237, C6248, C6249 C6251, C6254, C6256, C6262-C6266		CCSRCH331J50 CCSRCH390J50 CCSRCH390J50 CCSRCH390J50 CCSRCH390J50
C6211, C6221, C6228, C6241, C6247 C6261		CKSRYF104Z16 CKSRYF104Z16

RESISTORS

R6207, R6209, R6222, R6228, R6232 R6239 Other Resistors	RAB4C221J RAB4C221J RS1/16S###J
---	---------------------------------------

OTHERS

CN6201 15P CONNECTOR K6202, K6212, K6219, K6225, K6231 K6239, K6244 TEST PIN	AKP1218 AKX9002 AKX9002
--	-------------------------------

X CONNECTOR (A) ASSY**RESISTORS**

All Resistors	RS1/16S###J
---------------	-------------

X CONNECTOR (B) ASSY**RESISTORS**

All Resistors	RS1/16S###J
---------------	-------------

BRIDGE A ASSY**SEMICONDUCTORS**

D6421	D1FL20U(S)
-------	------------

CAPACITORS

C6421 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6421 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

BRIDGE B ASSY**SEMICONDUCTORS**

D6431	D1FL20U(S)
-------	------------

CAPACITORS

C6431 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6431 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

BRIDGE C ASSY**SEMICONDUCTORS**

D6441	D1FL20U(S)
-------	------------

CAPACITORS

C6441 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6441 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
-----------------	--------------------	-----------------

**BRIDGE D ASSY
SEMICONDUCTORS**

D6451	D1FL20U(S)
-------	------------

CAPACITORS

C6451 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6451 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

**CLAMP A ASSY
SEMICONDUCTORS**

D6461	D1FL20U(S)
-------	------------

CAPACITORS

C6461 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6461 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

**CLAMP B ASSY
SEMICONDUCTORS**

D6471	D1FL20U(S)
-------	------------

CAPACITORS

C6471 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6471 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

**CLAMP C ASSY
SEMICONDUCTORS**

D6481	D1FL20U(S)
-------	------------

CAPACITORS

C6481 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6481 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

**CLAMP D ASSY
SEMICONDUCTORS**

D6491	D1FL20U(S)
-------	------------

CAPACITORS

C6491 (0.1uF/100V)	ACG1098
--------------------	---------

OTHERS

CN6491 PH CONNECTOR	B4B-PH-SM3
---------------------	------------

**ADR CONNECT A ASSY
SEMICONDUCTORS**

IC6501 Q6502 Q6503 D6501	TC74VHC541FT 2SC2712 2SK209 DA227
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COILS AND FILTERS

L6501, L6502 (22uH/0.11A)	ATH1081
---------------------------	---------

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
<u>CAPACITORS</u>		
C6511-C6520	(330pF/100V)	ACG1105
C6531, C6533, C6534	(47uF/6.3V)	ACH1341
C6536-C6538		CCSRCH121J50
C6506-C6510, C6521-C6525, C6532		CKSRYF104Z16
C6535		CKSRYF104Z16

<u>RESISTORS</u>	
R6518-R6522, R6524, R6526, R6528	RAB4C100J
R6530, R6531, R6533-R6537, R6539	RAB4C100J
R6541, R6543, R6545, R6547	RAB4C100J
R6516	RAB4C473J
Other Resistors	RS1/16S###J

<u>OTHERS</u>		
CN6501	55P CONNECTOR	AKM1202

ADR CONNECT B ASSY

SEMICONDUCTORS

IC6601	TC74VHC541FT
Q6602	2SC2712
Q6603	2SK209
D6601	DA227

COILS AND FILTERS	
L6601, L6602 (22uH/0.11A)	ATH1081

CAPACITORS		
C6611-C6620 (330pF/100V)		ACG1105
C6631, C6633, C6634 (47uF/6.3V)		ACH1341
C6636-C6638		CCSRCH121J50
C6606-C6610, C6621-C6625, C6632		CKSRYF104Z16
C6635		CKSRYF104Z16

<u>RESISTORS</u>	
R6618-R6622, R6624, R6626, R6628	RAB4C100J
R6630, R6631, R6633-R6637, R6639	RAB4C100J
R6641, R6643, R6645, R6647	RAB4C100J
R6616	RAB4C473J
Other Resistors	RS1/16S###J

<u>OTHERS</u>		
CN6601	55P CONNECTOR	AKM1202

ADR CONNECT C ASSY

SEMICONDUCTORS

IC6801	TC74VHC541FT
Q6802	2SC2712
Q6803	2SK209
D6801	DA227

COILS AND FILTERS	
L6801, L6802 (22uH/0.11A)	ATH1081

CAPACITORS		
C6811-C6820 (330pF/100V)		ACG1105
C6831, C6833, C6834 (47uF/6.3V)		ACH1341
C6836-C6838		CCSRCH121J50
C6806-C6810, C6821-C6825, C6832		CKSRYF104Z16
C6835		CKSRYF104Z16

<u>RESISTORS</u>	
R6818-R6822, R6824, R6826, R6828	RAB4C100J
R6830, R6831, R6833-R6837, R6839	RAB4C100J
R6841, R6843, R6845, R6847	RAB4C100J
R6816	RAB4C473J

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
Other Resistors		RS1/16S###J
<u>OTHERS</u>		
CN6801	55P CONNECTOR	AKM1202

ADR CONNECT D ASSY

SEMICONDUCTORS

IC6901	TC74VHC541FT
Q6902	2SC2712
Q6903	2SK209
D6901	DA227

<u>COILS AND FILTERS</u>	
L6901, L6902 (22uH/0.11A)	ATH1081

CAPACITORS		
C6911-C6920 (330pF/100V)		ACG1105
C6931, C6933, C6934 (47uF/6.3V)		ACH1341
C6936-C6938		CCSRCH121J50
C6906-C6910, C6921-C6925, C6932		CKSRYF104Z16
C6935		CKSRYF104Z16

<u>RESISTORS</u>	
R6918-R6922, R6924, R6926, R6928	RAB4C100J
R6930, R6931, R6933-R6937, R6939	RAB4C100J
R6941, R6943, R6945, R6947	RAB4C100J
R6916	RAB4C473J
Other Resistors	RS1/16S###J

<u>OTHERS</u>		
CN6901	55P CONNECTOR	AKM1202

ADR RESONANCE ASSY

SEMICONDUCTORS

IC6704	ICP-S1.0
IC6701-IC6703	TND301S
Q6704, Q6705, Q6712	2SB1132
Q6701-Q6703	2SD1664
Q6710, Q6711	2SK3483-Z

Q6706-Q6709	FX20ASJ-2
D6701, D6703, D6704, D6706	1SS355
D6709, D6710, D6717, D6718	D1FL20U(S)
D6711-D6714	SPX-62S
D6702, D6705, D6716	UDZ15B

<u>COILS AND FILTERS</u>	
L6704 CHOKE COIL	ATH1111

<u>CAPACITORS</u>	
C6716	ACE1162
C6720, C6721 (0.01uF/100V)	ACG1101
C6722 (0.0068F/100V)	ACG1102
C6703-C6708 (56uF/80V)	ACH1347
C6709	CEHV101M16

C6701, C6702	CEHV470M16
C6710, C6711, C6713	CKSRYF104Z16

<u>RESISTORS</u>	
All Resistors	RS1/16S###J

OTHERS		
CN6701	23P CONNECTOR	AKP1221
CN6702	PH CONNECTOR	B4B-PH-SM3
CN6703	PH CONNECTOR	B5B-PH-SM3

Mark No.	Description	Part No.
X DRIVE ASSY		
[X LOGIC BLOCK]		
<u>SEMICONDUCTORS</u>		
IC3003		PE1012A
IC3004		TC74ACT540FT
IC3001, IC3008		TC74ACT541FT

COILS AND FILTERS

L3001	LFEA100J
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CAPACITORS

C3005	CEHAT470M16
C3001, C3003, C3004, C3006	CKSRYF104Z50

RESISTORS

R3009-R3012	RAB4C0R0J
R3001, R3003, R3026, R3029	RAB4C470J
R3002, R3005, R3030, R3033	RAB4C472J
Other Resistors	RS1/16S###J

OTHERS

CN3001 30P CONNECTOR	KF050HA30L
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[X SUS BLOCK]**SEMICONDUCTORS**

IC3102	HCPL-M611
IC3200, IC3201	STK795-470
IC3101	TC74ACT541FT
IC3103, IC3104, IC3106, IC3107, IC3110	TND301S
IC3113	TND301S

IC3109	UPC78L05T
Q3116, Q3119, Q3120	2SJ522
Q3101	2SK2503
Q3103-Q3107, Q3109-Q3115	FS16VS-9
Q3124-Q3127	FS16VS-9

Q3122, Q3128	FS7VS-14A
Q3102	HN1B04FU
D3119	1SS184
D3108, D3124, D3125, D3133	1SS355
D3126, D3131, D3200, D3203, D3205	D1FL40

D3208, D3212-D3215	D1FL40
D3101, D3102, D3117, D3202, D3207	EC11FS4
D3210, D3211	EC11FS4
D3216, D3217	RB751V-40
D3120, D3127-D3129, D3135, D3136	UDZ15B

COILS AND FILTERS

L3206, L3207	ATH1112
RADIAL LEAD INDUCTOR	
L3201, L3204 CHOKE COIL	ATH1117
L3202, L3205, L3210, L3211	ATH1118
CHOKE COIL	

L3101	LFEA100J
L3107, L3108	LFEA101J

CAPACITORS

C3205, C3206, C3212, C3213	ACE1160
C3225, C3226 (1.5uF)	ACE1160
C3139, C3143 (0.1uF/630V)	ACG1092
C3223, C3224 (100pF/630V)	ACG1104
C3200-C3202, C3207-C3209	ACH1352
(330uF/280V)	

C3132	ACH1353
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Mark No.	Description	Part No.
C3112		CEHAT101M16
C3102, C3107, C3115, C3204, C3211		CEHAT101M25
C3101		CEHAT221M25
C3104, C3106		CEHAT470M16
C3135		CEHAT470M25
C3137, C3138		CKSRYB473K25
C3103, C3105, C3108, C3109, C3111		CKSRYF104Z50
C3113, C3114, C3117, C3130, C3140		CKSRYF104Z50

RESISTORS

R3183, R3184, R3187 (15ohm)	ACN1156
R3113, R3114, R3121, R3122, R3126	RAB4C100J
R3132, R3140, R3141	RAB4C100J
R3212, R3217, R3230, R3234, R3237	RS1/10S184J
R3240, R3242, R3245	RS1/10S184J

R3211, R3213, R3214, R3218	RS1/16S2000F
R3134, R3163	RS1/2S100J
R3103	RS1/2S102J
R3109	RS1/2S2R2J
R3102	RS1/2S561J

R3215, R3216	RS1MMF101J
R3228, R3229	RS1MMF102J
R3178, R3179	RS3LMF121J
VR3200, VR3204	ACP1089
Other Resistors	RS1/16S###J

OTHERS

K3203, K3213 TEST PIN	AKX9002
KN3105-KN3114 GROUND PLATE	ANK-142
CN3101 13P PLUG	KM250MA13

[X DD CON BLOCK]**SEMICONDUCTORS**

IC3712	AN1431M
IC3701	MIP161
IC3702-IC3704	TLP181(GR)
Q3701	2SC2712
Q3800	HN1A01FU

D3710, D3711	1SS355
D3705, D3706	D1FL20U(S)
D3702	EC8FS6
D3708, D3709, D3713	RD110P
D3703	UDZ18B

D3707	UDZS5.6B
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COILS AND FILTERS

L3701 RADIAL LEAD INDUCTOR	ATH1110
T3701 VRN TRANSFORMER	ATK1153

CAPACITORS

C3701 (22uF/315V)	ACH1345
C3717 (47uF/350V)	ACH1346
C3704	CEHAT101M16
C3706, C3711, C3714	CEHAT101M25
C3712	CEHAT331M16

C3705	CKSQYF104Z50
C3703, C3707, C3708, C3710	CKSRYB104K16
C3715, C3716	CKSRYB104K16

RESISTORS

R3732	RS1/16S1001F
R3806	RS1/16S1802F
R3701-R3704, R3706-R3717	RS1/16S1803F

Mark No.	Description	Part No.
R3805		RS1/16S2702F
R3731		RS1/16S3900F
R3802		RS1/16S5601F
R3738, R3739		RS1/2S102J
R3800, R3801		RS1/2S823J
VR3701 (1kohm)		ACP1089
Other Resistors		RS1/16S###J

Y DRIVE ASSY

[Y DRIVE LOGIC BLOCK] SEMICONDUCTORS

IC2006	PE1013B
IC2007	TC74ACT540FT
IC2001, IC2003-IC2005	TC74ACT541FT
IC2101	TLP181(GR)

COILS AND FILTERS

L2001	LFEA100J
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CAPACITORS

C2101	CEHAT100M50
C2003	CEHAT470M16
C2001, C2004, C2005, C2007, C2008	CKSRYF104Z50
C2010, C2102, C2104, C2122	CKSRYF104Z50

RESISTORS

R2015-R2018	RAB4C0R0J
R2001, R2002, R2005, R2011	RAB4C470J
R2037, R2038	RAB4C470J
R2035, R2036, R2039, R2040	RAB4C472J
Other Resistors	RS1/16S###J

OTHERS

CN2001 50P CONNECTOR	AKM1201
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[Y DRIVE SUS BLOCK] SEMICONDUCTORS

IC2202, IC2208	HCPL-M611
IC2206, IC2214	STK795-470
IC2201	TC74ACT541FT
IC2203, IC2204, IC2210, IC2212, IC2213	TND301S
IC2216, IC2217	TND301S

IC2205, IC2209	UPC78L05T
Q2203	2SJ281
Q2204, Q2205	2SJ522
Q2201	2SK2503
Q2215-Q2221, Q2226-Q2228	FQB34N20

Q2232, Q2233	FQB34N20
Q2210, Q2211	FS16VS-9
Q2209	HN1B04FU
D2225	1SS184
D2202, D2204	1SS226

D2211	1SS355
D2201	D1FL20U(S)
D2203, D2205, D2214, D2216, D2223	D1FL40
D2226, D2227, D2243	D1FL40
D2209	DF20L60

D2208, D2210, D2212, D2215	EC11FS4
D2221, D2222, D2228, D2239	EC11FS4
D2224, D2229	RB751V-40
D2206, D2207	UDZ15B

COILS AND FILTERS

Mark No.	Description	Part No.
L2207	RADIAL LEAD INDUCTOR	ATH1110
L2213, L2214		ATH1112
RADIAL LEAD INDUCTOR		
L2206, L2211	CHOKE COIL	ATH1117
L2208, L2212, L2215, L2216		ATH1118
CHOKE COIL		
L2210		LFEA100J
L2203, L2205		LFEA101J
L2201		LFEA470J

CAPACITORS

C2228, C2230, C2231, C2250-C2252 (1.5uF)	ACE1160
C2209, C2210 (0.1uF/630V)	ACG1092
C2233, C2248 (100pF/630V)	ACG1104
C2211 (47uF/350V)	ACH1346
C2216, C2217, C2219, C2234-C2236 (330uF/280V)	ACH1352
C2232	ACH1354
C2221, C2225	CEHAT101M16
C2204, C2227, C2237, C2240, C2247	CEHAT101M25
C2202	CEHAT221M25
C2218, C2224, C2229	CEHAT470M16
C2212, C2214	CEHAT470M25
C2201, C2203, C2205, C2208, C2213	CKSRYF104Z50
C2220, C2222, C2223, C2238, C2239	CKSRYF104Z50
C2241, C2242	CKSRYF104Z50

RESISTORS

R2235, R2273, R2291, R2305, R2315	RAB4C100J
R2317, R2342	RAB4C100J
R2253, R2256, R2270, R2283, R2332	RS1/10S184J
R2338, R2354, R2355	RS1/10S184J
R2359-R2362	RS1/16S2000F
R2263, R2264	RS1/2S100J
R2203	RS1/2S102J
R2209	RS1/2S2R2J
R2202	RS1/2S561J
R2278, R2303	RS1MMF101J

R2233, R2234	RS1MMF102J
R2274, R2275	RS1MMF221J
R2298, R2299	RS2MMF4R7J
R2276, R2281	RS3LMFR82J
VR2201, VR2205 (1kohm)	ACP1089

Other Resistors	RS1/16S###J
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OTHERS

K2206, K2218	TEST PIN	AKX9002
KN2201-KN2210	GROUND PLATE	ANK-142
CN2201	15P PLUG	KM250MA15

[Y DRIVE SCAN BLOCK] SEMICONDUCTORS

IC2501, IC2502, IC2505, IC2510, IC2514	HCPL-M611
IC2504, IC2506	TC74ACT540FT

COILS AND FILTERS

L2501-L2503	LFEA100J
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CAPACITORS

C2506, C2527	CEHAT220M2D
C2502	CEHAT221M16

Mark No.	Description	Part No.
C2524, C2525		CEHAT470M16
C2501, C2503, C2505, C2507, C2508		CKSRYF104Z50
C2513, C2517		CKSRYF104Z50

RESISTORS

R2502, R2504	RAB4C101J
Other Resistors	RS1/16S###J

OTHERS

CN2501, CN2502	AKM1200
15P CONNECTOR	

[Y DRIVE DD-CON BLOCK]

SEMICONDUCTORS

IC2715-IC2717	AN1431M
IC2709	HCNR201
IC2708, IC2710, IC2718	M5223AFP
IC2711	MIP0223SC
IC2701	MIP161

IC2704	MIP301
IC2702, IC2703, IC2705-IC2707	TLP181(GR)
IC2712-IC2714	TLP181(GR)
Q2701, Q2703	2SC2712
Q2704	HN1A01FU

D2712, D2717, D2718, D2732, D2734	1SS355
D2736, D2737	1SS355
D2704, D2706, D2707, D2715, D2726	D1FL20U(S)
D2728	D1FL20U(S)
D2711	D1FS4

D2702, D2714, D2727	EC11FS4
D2725	EC8FS6
D2733	RD91P
D2724	U1ZB330
D2713	U1ZB36

D2740	UDZ12B
D2709, D2716	UDZ3.6B
D2729, D2731	UDZ33B
D2703, D2710	UDZ36B
D2720, D2730, D2739	UDZS5.6B

COILS AND FILTERS

L2701	RADIAL LEAD INDUCTOR	ATH1110
T2702	SMD TRANSFORMER	ATK1150
T2703	VH TRANSFORMER	ATK1151
T2701	VOFS TRANSFORMER	ATK1152

CAPACITORS

C2701, C2735 (22uF/315V)	ACH1345
C2706, C2725, C2737	CEHAT101M16
C2709, C2718, C2720, C2739, C2745	CEHAT101M25
C2708	CEHAT101M2A
C2740	CEHAT101M2C

C2704	CEHAT221M25
C2715	CEHAT331M16
C2746	CEHAT331M25
C2723, C2751	CEHAT470M16
C2712	CEHAT471M35

C2711	CKSRYB103K50
C2702, C2705, C2713, C2714, C2719	CKSRYB104K16
C2721, C2722, C2724, C2727, C2729	CKSRYB104K16
C2731, C2733, C2736, C2742, C2743	CKSRYB104K16
C2747-C2749	CKSRYB104K16

C2728, C2730	CKSRYB471K50
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Mark No.	Description	Part No.
C2707, C2738		CKSRYF104Z50

RESISTORS

R2735, R2791	RS1/16S1000F
R2780	RS1/16S1103F
R2715, R2728, R2733	RS1/16S1201F
R2787	RS1/16S1302F
R2766	RS1/16S1501F

R2785	RS1/16S1503F
R2777, R2786	RS1/16S1802F
R2776	RS1/16S2702F
R2705, R2706, R2709, R2710, R2778	RS1/16S3002F
R2781	RS1/16S3002F

R2783	RS1/16S4701F
R2734, R2736	RS1/16S4702F
R2779	RS1/16S5102F
R2773	RS1/16S5601F
R2784	RS1/16S5602F

R2782	RS1/16S6801F
R2744-R2746, R2748-R2753	RS1/16S9102F
R2711, R2716, R2767, R2770	RS1/2S102J
R2788, R2792	RS1/2S561J
R2771, R2772	RS1/2S823J

R2712	RS3LMF272J
VR2702, VR2703 (1kohm)	ACP1089
VR2701 (2.2kohm)	ACP1090
Other Resistors	RS1/16S###J

SUB ADDRESS A ASSY

SEMICONDUCTORS

IC8801, IC8802, IC8804	M5223AFP
IC8803	TC74VHC74FT
Q8802	2SA1163
Q8804, Q8805, Q8808	2SC2712
Q8806	2SK209

D8801-D8803, D8809	1SS355
D8806, D8807	DA227
D8808	UDZ27B
D8804	UDZS5.1B

COILS AND FILTERS

L8801 (100uH/0.45A)	ATH1074
L8802, L8803 (22uH/0.11A)	ATH1081

CAPACITORS

C8806	CCSRCH101J50
C8822	CEHV100M16
C8804	CEHV100M35
C8808	CEHV470M16
C8807	CEVNP2R2M35

C8802, C8805, C8809-C8817	CKSRYF104Z16
C8820, C8821	CKSRYF104Z16

RESISTORS

R8806, R8807, R8837, R8838, R8841	RS1/16S1002D
R8858	RS1/16S1202D
R8864	RS1/16S1802F
R8828, R8829, R8846	RS1/16S2202D
R8826, R8827, R8839, R8840	RS1/16S4701D

R8833, R8859	RS1/16S4702F
R8832	RS1/16S5602F
R8801, R8802	RS1/2S1R5J

Mark No.	Description	Part No.
R8803-R8805		RS1/2S2R2J
Other Resistors		RS1/16S###J

OTHERS

CN8803	23P CONNECTOR	AKM1205
CN8801	PH CONNECTOR	S3B-PH-SM3
CN8802	PH CONNECTOR	S8B-PH-SM3

SUB ADDRESS B ASSY

SEMICONDUCTORS

IC8901, IC8902, IC8904	M5223AFP
IC8903	TC74VHC74FT
Q8902	2SA1163
Q8904, Q8905, Q8908	2SC2712
Q8906	2SK209

D8901-D8903, D8909	1SS355
D8906, D8907	DA227
D8908	UDZ27B
D8904	UDZS5.1B

COILS AND FILTERS

L8901 (100uH/0.45A)	ATH1074
L8902, L8903 (22uH/0.11A)	ATH1081

CAPACITORS

C8906	CCSRCH101J50
C8922	CEHV100M16
C8904	CEHV100M35
C8908	CEHV470M16
C8907	CEVNP2R2M35

C8902, C8905, C8909-C8917	CKSRYF104Z16
C8920, C8921	CKSRYF104Z16

RESISTORS

R8906, R8907, R8937, R8938, R8941	RS1/16S1002D
R8958	RS1/16S1202D
R8964	RS1/16S1802F
R8928, R8929, R8946	RS1/16S2202D
R8926, R8927, R8939, R8940	RS1/16S4701D

R8933, R8959	RS1/16S4702F
R8932	RS1/16S5602F
R8901, R8902	RS1/2S1R5J
R8903-R8905	RS1/2S2R2J
Other Resistors	RS1/16S###J

OTHERS

CN8903	23P CONNECTOR	AKM1205
CN8901	PH CONNECTOR	S3B-PH-SM3
CN8902	PH CONNECTOR	S8B-PH-SM3

SENSOR ASSY

SEMICONDUCTORS

IC8351	LM50CIM3
IC8352	M5223AFP

CAPACITORS

C8356	CEV470M6R3
C8354	CKSRYB103K50
C8351, C8355	CKSRYF104Z16
C8352, C8353	CKSRYF105Z10

RESISTORS

R8354, R8358	RS1/16S1001F
Other Resistors	RS1/16S###J

Mark No.	Description	Part No.
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DIGITAL VIDEO ASSY

[INTERFACE BLOCK]

SEMICONDUCTORS

IC1001-IC1008	TC74VHC541FT
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COILS AND FILTERS

F1001-F1006	ATF1194
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CAPACITORS

C1001-C1008	CKSRYF104Z16
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RESISTORS

R1044	RAB4C101J
R1001-R1007, R1036, R1063-R1069	RAB4C103J
R1008-R1017, R1019, R1020, R1027	RAB4C470J
R1032, R1034, R1035, R1037, R1038	RAB4C470J
R1040-R1043, R1048, R1049	RAB4C470J

R1051-R1054	RAB4C470J
Other Resistors	RS1/16S###J

OTHERS

CN1003, CN1004	AKM1201
50P CONNECTOR	
K1001 TEST PIN	AKX9002
CN1001 PH CONNECTOR	B12B-PH-SM3

[PANEL UCOM BLOCK]

SEMICONDUCTORS

IC1101	HD64F2328VF
IC1103	NC7SZ08P5
IC1102	PST9228N
Q1101, Q1103	DTC143EK
D1101	AEL1171

CAPACITORS

C1123, C1124	CCSRCH7R0D50
C1101	CEV101M4
C1102, C1109, C1110, C1112-C1116	CKSRYB102K50
C1129-C1132	CKSRYB102K50
C1117, C1121	CKSRYB103K50

C1120	CKSRYB472K50
C1103-C1108, C1111, C1118, C1119	CKSRYF104Z16
C1122, C1125-C1128	CKSRYF104Z16

RESISTORS

R1104, R1107, R1110, R1113, R1114	RAB4C472J
R1116, R1121, R1124, R1127, R1129	RAB4C472J
Other Resistors	RS1/16S###J

OTHERS

K1101-K1104, K1107, K1108	AKX9002
TEST PIN	
X1101	ASS1160
CERAMIC RESONATOR (25MHZ)	

[MODULE UCOM BLOCK]

SEMICONDUCTORS

IC1204	24LC04B(I)SN
IC1208	PST9246N
IC1202	TC74VHC08FT
IC1201	TC74VHC21FT
IC1205	TC74VHC541FT

Mark No.	Description	Part No.
IC1203		TC74VHCT541AFT
IC1206		TC7W126FU
D1201, D1202		1SS355
CAPACITORS		
C1213, C1243-C1245		CCSRCH470J50
C1235, C1236		CCSRCH7R0D50
C1225, C1232		CEV470M6R3
C1201-C1203, C1206-C1211		CKSRYB102K50
C1214-C1216, C1218, C1219		CKSRYB102K50
C1223, C1224, C1226, C1227, C1229		CKSRYB102K50
C1237, C1238, C1241, C1242, C1247		CKSRYB102K50
C1234		CKSRYB103K50
C1233		CKSRYB472K50
C1204, C1205, C1212, C1217		CKSRYF104Z16
C1221, C1222, C1228, C1230, C1231		CKSRYF104Z16
C1239, C1240, C1246, C1248-C1250		CKSRYF104Z16
RESISTORS		
R1209, R1214, R1245		RAB4C101J
R1242		RAB4C103J
R1207		RAB4C123J
R1213, R1216		RAB4C473J
Other Resistors		RS1/16S###J
OTHERS		
X1201		ASS1159
CERAMIC RESONATOR (16MHz)		
CN1203 PH CONNECTOR		B3B-PH-SM3
CN1201, CN1202 8P PLUG		CKS3130
[DIGITAL BLOCK]		
SEMICONDUCTORS		
IC1802		FS781BZB
IC1704		NC7SZ08P5
IC1301, IC1401		PD6358A
IC1703		PE5064A
IC1501, IC1502, IC1601, IC1602		TC74VCX541FT
IC1702, IC1801		TC74VHC541FT
IC1803		TC74VHC74FT
IC1701		TC74VHCT541AFT
D1301-D1305		1SS226
COILS AND FILTERS		
F1301-F1304, F1501-F1505		ATF1194
F1601-F1605 EMI FILTER		ATF1194
CAPACITORS		
C1807		CCSRCH271J50
C1802		CEV100M16
C1306, C1322, C1406, C1422, C1711		CEV101M4
C1806		CEV101M4
C1504-C1508, C1604-C1608, C1712		CKSRYB102K50
C1303-C1305, C1307-C1321		CKSRYF104Z16
C1323-C1336, C1403-C1405		CKSRYF104Z16
C1407-C1421, C1423-C1436, C1501		CKSRYF104Z16
C1503, C1601, C1603, C1701-C1710		CKSRYF104Z16
C1713, C1803-C1805		CKSRYF104Z16
RESISTORS		
R1502, R1517, R1606, R1622		RAB4C101J
R1307, R1310-R1315, R1317, R1318		RAB4C220J
R1321, R1322, R1326-R1344, R1407		RAB4C220J
R1410-R1415, R1417, R1418		RAB4C220J
R1421, R1422, R1426-R1444		RAB4C220J

Mark No.	Description	Part No.
R1501, R1514, R1607, R1627, R1701		RAB4C470J
R1703-R1709, R1712-R1717		RAB4C470J
R1551, R1552		RS1/2S680J
Other Resistors		RS1/16S###J
OTHERS		
CN1701 50P CONNECTOR		AKM1201
CN1501, CN1502, CN1504, CN1505		AKM1202
CN1601, CN1602, CN1604, CN1605		AKM1202
55P CONNECTOR		
K1301, K1302, K1308, K1311-K1314		AKX9002
K1316, K1321, K1324, K1326-K1331		AKX9002
K1333, K1501, K1502, K1601, K1602		AKX9002
K1728, K1729 TEST PIN		AKX9002
X1801		ASS1146
CRYSTAL RESONATOR (50.000MHz)		
CN1503, CN1603 PH CONNECTOR		B8B-PH-SM3
CN1301 8P PLUG		CKS3130
CN1702 30P CONNECTOR		KF050HA30L
[D-D CONVERTER BLOCK]		
SEMICONDUCTORS		
Q1902, Q1905, Q1907		2SC2712
Q1903		DTC143EK
Q1901, Q1904, Q1906		HN1C01FU
D1903-D1906, D1911, D1912		1SS355
D1908		HZU2.2B
D1902, D1909		UDZ3.6B
D1907		UDZS5.1B
D1901		UDZS6.8B
CAPACITORS		
C1904, C1906, C1912		CEV220M16
C1901-C1903, C1905, C1907-C1911		CKSRYF104Z16
RESISTORS		
R1935, R1936		RS1/2S680J
Other Resistors		RS1/16S###J
OTHERS		
K1901-K1906 TEST PIN		AKX9002
1901 DC-DC CONVERTER		AXY1060
CN1901 PH CONNECTOR		B13B-PH-SM3
MR INTERFACE ASSY		
[INTERFACE BLOCK]		
SEMICONDUCTORS		
IC4011		CXA1875AM
IC4007, IC4010		M5223AFP
IC4005		M62320FP
IC4001		PQ05DZ51
IC4002-IC4004		PQ20VZ1U
IC4013		PST9228N
IC4008, IC4009		TC74HC00AF
IC4012		TC74HC4066AF
IC4006		TC74VHCT541AFT
Q4003, Q4004, Q4010		2SA1162
Q4007, Q4009, Q4013, Q4017, Q4018		2SC2712
Q4012, Q4016, Q4019-Q4022		DTC124EK
Q4014		HN1A01FU
Q4008		HN1B04FU
Q4001, Q4002, Q4005, Q4006		HN1C01FU

Mark No.	Description	Part No.
Q4011, Q4015		RN2902
D4007, D4008		1SS184
D4002-D4006		1SS355

SWITCHES AND RELAYS

S4001, S4004	ASH1010
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CAPACITORS

C4023, C4036, C4037	CCSRCH102J50
C4025, C4032	CCSRCH220J50
C4029, C4030, C4053, C4054	CCSRCH471J50
C4001, C4004, C4005, C4008, C4010	CEAT101M10
C4012, C4013, C4016, C4041, C4042	CEAT101M10

C4034, C4038, C4050, C4056	CKSRYB105K6R3
C4043	CKSRYB474K10
C4027, C4028, C4033, C4051	CKSRYF103Z50
C4002, C4003, C4006, C4007	CKSRYF104Z16
C4014, C4015, C4017-C4019, C4024	CKSRYF104Z16

C4026, C4031, C4035, C4039, C4040	CKSRYF104Z16
C4044-C4047, C4049, C4052, C4055	CKSRYF104Z16

RESISTORS

R4019, R4035, R4054, R4066	RAB4C101J
R4056	RAB4C471J
R4007, R4014, R4015, R4117	RS1/16S1001F
R4106	RS1/16S1002F
R4107	RS1/16S1502F

R4098	RS1/16S2201F
R4078	RS1/16S2202F
R4074, R4094	RS1/16S3301F
R4075	RS1/16S4701F
R4057	RS1/16S5601F

R4124	RS1/16S5602F
R4004, R4005, R4115, R4116	RS1/16S8200F
R4093	RS1/16S8201F
R4006	RS2MMF2R2J
Other Resistors	RS1/16S###J

OTHERS

CN4004, CN4005	AKM1180
50P CONNECTOR	
CN4003 24P DVI SOCKET	AKP1216
CN4002 SOCKET (20P)	AKP1227
CN4006, CN4009	B3B-PH-SM3

3P PH CONNECTOR	
CN4007 7P PH CONNECTOR	B7B-PH-SM3
CN4008 8P PLUG	CKS3130

[TMD5 RECEIVER BLOCK] SEMICONDUCTORS

IC4201	24LC01B
IC4203	24LC128(I)SN
IC4202	24LC32A
IC4205	PST9228N
IC4204	SII861CM208

Q4209, Q4212	2SA1162
Q4205, Q4206, Q4213	DTA124EK
Q4203, Q4204, Q4207, Q4208	DTC124EK
Q4210, Q4211, Q4214	DTC124EK
Q4201, Q4202	HN1C01FU

D4201	1SS184
D4203, D4204	1SS226

Mark No.	Description	Part No.
D4205-D4209		1SS355
D4202		RD6.8MB

COILS AND FILTERS

F4201, F4203-F4205	EMI FILTER	ATF1194
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CAPACITORS

C4208, C4210, C4215, C4222, C4230	CCSRCH331J50
C4255, C4257	CCSRCH331J50
C4262	CCSRCH471J50
C4206, C4207, C4212, C4214, C4217	CCSRCH820J50
C4219, C4220, C4224, C4227, C4229	CCSRCH820J50

C4231-C4233, C4236, C4241, C4244	CCSRCH820J50
C4248, C4253, C4254, C4258	CCSRCH820J50
C4239, C4242, C4246, C4250	CEAT101M10
C4202, C4237, C4238	CEAT470M10
C4264	CKSRYB103K50

C4265	CKSRYB105K6R3
C4260	CKSRYB472K50
C4263	CKSRYB474K10
C4201, C4203-C4205, C4209, C4211	CKSRYF104Z16
C4213, C4216, C4218, C4221, C4225	CKSRYF104Z16

C4234, C4235, C4240, C4243, C4245	CKSRYF104Z16
C4247, C4251, C4252, C4256, C4259	CKSRYF104Z16
C4261	CKSRYF104Z16
C4223, C4226, C4228, C4249	CKSRYF105Z10
C4266-C4270	CKSRYF105Z10

RESISTORS

R4213-R4217, R4245, R4247	RAB4C181J
R4253-R4255	RAB4C181J
R4241	RAB4C680J
R4250	RS1/16S5100D
Other Resistors	RS1/16S###J

OTHERS

K4201-K4207	TEST PIN	AKX9002
X4201		ASS1163
CRYSTAL RESONATOR (16.000MHz)		

[AUDIO BLOCK]

SEMICONDUCTORS

Q4403	2SA1162
Q4401, Q4402	2SC2712
D4401-D4404	1SS355

CAPACITORS

C4408, C4417	CEANP100M50
C4403	CEAT101M10
C4407	CEAT101M25
C4402	CEAT220M50
C4425, C4426	CEAT470M25

C4410	CKSRYF104Z16
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RESISTORS

All Resistors	RS1/16S###J
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OTHERS

CN4403 7P PH CONNECTOR	B7B-PH-SM3
CN4404 8P PH CONNECTOR	B8B-PH-SM3

LED ASSY SEMICONDUCTORS

Mark No.	Description	Part No.
D4751		AEL1170
OTHERS		
CN4751	3P PH CONNECTOR	S3B-PH-SM3

FRONT KEY ASSY SWITCHES AND RELAYS

S4801-S4806	ASG1088
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CAPACITORS

C4801-C4803	CKSRYF104Z16
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RESISTORS

All Resistors	RS1/16S###J
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OTHERS

CN4801	6P FFC CONNECTOR	AKM1208
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FRONT KEY CONN ASSY

SEMICONDUCTORS

D4851, D4852	1SS226
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OTHERS

CN4851	6P FFC CONNECTOR	AKM1208
CN4852	4P PH CONNECTOR	B4B-PH-SM3

IR (P) ASSY

SEMICONDUCTORS

Q4901	2SC2712
D4901	1SS355

CAPACITORS

C4901	CEV470M6R3
C4902	CKSRYB103K50
C4903	CKSRYB472K50
C4904	CKSRYF104Z16

RESISTORS

All Resistors	RS1/16S###J
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OTHERS

4901	REMOTE RECEIVER UNIT	GP1UM26RK
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AUDIO AMP ASSY

SEMICONDUCTORS

IC5202	CXA2021S
IC5002	LA4628
IC5201	NJM2193L
IC5001	PQ12RD1B
Q5002, Q5005	2SA1048

Q5009, Q5012, Q5013	2SC2458
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COILS AND FILTERS

L5001	FERRITE CORE	ATX1037
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CAPACITORS

C5203, C5227	CCCCH221J50
C5213, C5226	CEHANP220M25
C5232, C5233, C5235	CEHAT100M50
C5015, C5029, C5033, C5201, C5206	CEHAT101M25
C5242	CEHAT221M25

C5032, C5034	CEHAT2R2M50
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Mark No.	Description	Part No.
C5044, C5050, C5051		CEHAT330M25
C5005		CEHAT331M16
C5238		CEHAT470M16
C5002		CEHAT471M16

C5013	CEHAT472M25
C5208, C5211, C5212, C5218	CEHAT4R7M50
C5222, C5223, C5234	CEHAT4R7M50
C5045	CEHATR47M50
C5014, C5204, C5217, C5220, C5228	CFTLA103J50

C5237	CFTLA103J50
C5035, C5046, C5053, C5056, C5216	CFTLA104J50
C5221, C5239	CFTLA104J50
C5214, C5230	CFTLA224J50
C5225	CFTLA333J50

C5219, C5236	CFTLA473J50
C5003, C5006, C5016, C5042, C5207	CKCYB103K50
C5210	CKCYB103K50
C5043, C5052, C5205, C5229	CQMA122J50
C5224	CQMA222J50

C5215, C5231	CQMA392J50
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RESISTORS

R5053, R5054, R5075, R5076	RD1/2MMF2R2J
R5001	RD1/2MMF3R9J
Other Resistors	RD1/4PU###J

OTHERS

J 5003	6P HOUSING WIRE	ADX2729
J 5002	8P HOUSING WIRE	ADX2731
5006	FERRITE CORE HOLDER	AEC1818
5001, 5002, 5004, 5005	SCREW	VBB30P100FNI

SP TERMINAL ASSY

COILS AND FILTERS

⚠ L5301, L5352	LINE FILTER	ATF1206
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CAPACITORS

⚠ C5306, C5307	CCCCH101J50
⚠ C5301, C5305, C5351, C5355	CCCCH221J50
⚠ C5302, C5352	CKCYB332K50
⚠ C5303, C5353	CKCYF473Z50

RESISTORS

⚠ R5301, R5302, R5351, R5352	RD1/2MMF100J
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OTHERS

CN5301	4P SPEAKER TERMINAL	AKE1058
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SW POWER SUPPLY MODULE

SW Power Supply Module has no service part.

6. ADJUSTMENT

6.1 SERVICE FACTORY MODE



Service factory mode uses an OSD function of the Media Receiver (PDP-R03E, PDP-R03U or PDP-R03G).
Perform the adjustment and setting when the Media Receiver is connected with this unit.
Service Factory mode cannot be used if the Media Receiver is not connected with the Plasma Display.

■ Remote Control Unit Operation in The Service Factory Mode

Operate the service factory mode with the remote control unit (AXD1463, AXD1460 or AXD1471) supplied with the Media Receiver.

Please perform the adjustment using the following keys.



Keys on the Remote Control Unit	Functions
P + key	Each press of the key moves the adjustment-item-selection cursor up by one line.
P – key	Each press of the key moves the adjustment-item-selection cursor down by one line.
VOL  + key	Each press of the key increases the adjustment value by one.
VOL  – key	Each press of the key decreases the adjustment value by one.
▲ key	Each press of the key moves one page backward (previous page).
▼ key	Each press of the key moves one page forward (next page).
◀ key	Each press of the key decreases the adjustment value by 10.
▶ key	Each press of the key increases the adjustment value by 10.

Diagram of a Pioneer remote control with the following callouts:

- * "0" key
- "VOL \triangleleft -" key
- * "MENU" key
- * "ENTER" key
- "P +" key
- "VOL \triangleleft +" key
- "P -" key
- " \blacktriangle " key
- " \blacktriangledown " key
- " \blacktriangleleft " key
- " \blacktriangleright " key

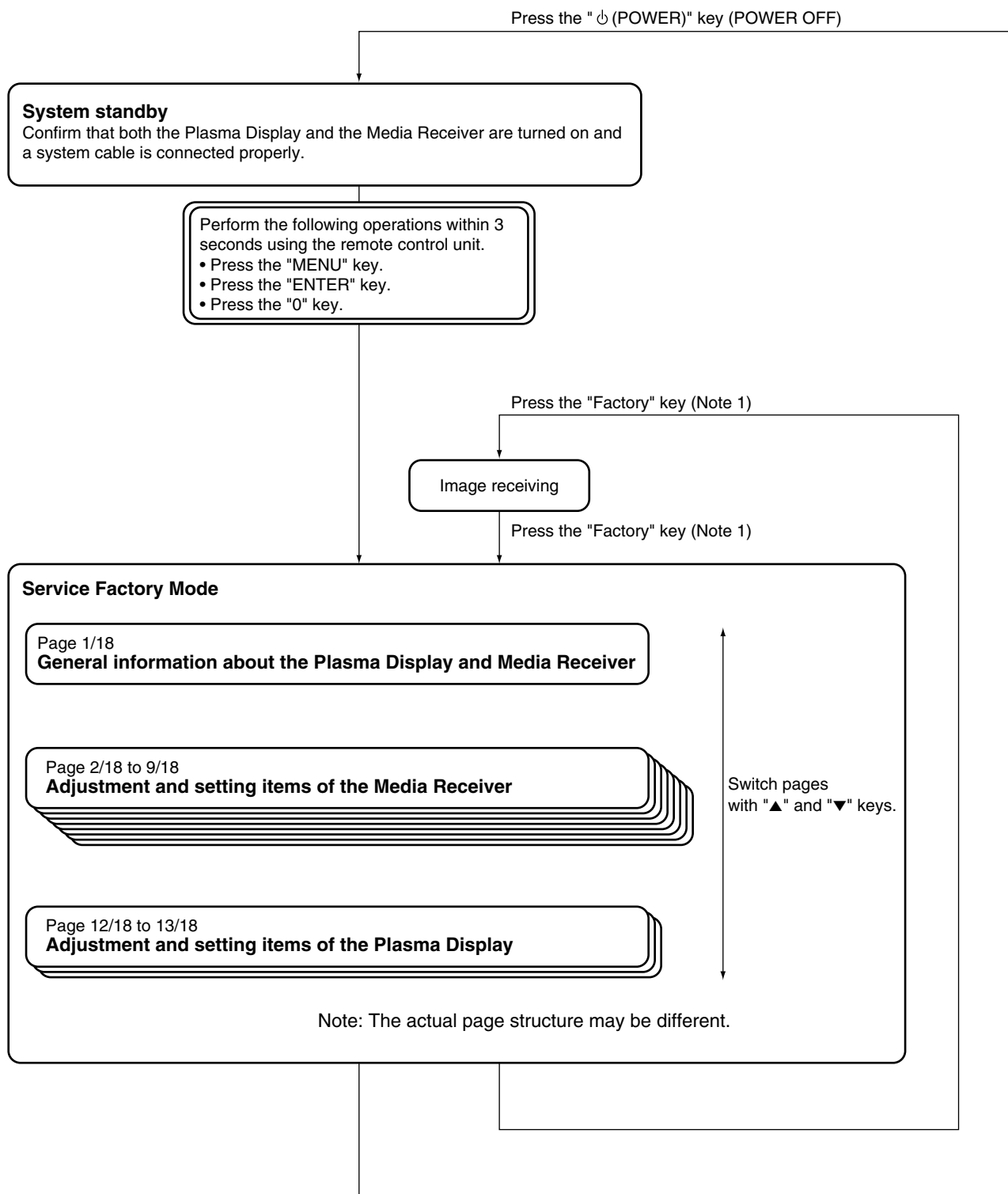
* : Refer to "6.1.1 How to Enter Service Factory Mode".

The diagram shows a Pioneer remote control with the following callouts:

- * "0" key: Points to the "0" button in the numeric keypad.
- * "MENU" key: Points to the "MENU" button.
- * "ENTER" key: Points to the "ENTER" button in the diamond-shaped navigation pad.
- "P +" key: Points to the "P +" button.
- "VOL \triangle +" key: Points to the "VOL \triangle +" button.
- "VOL \triangle -" key: Points to the "VOL \triangle -" button.
- "P -" key: Points to the "P -" button.
- " \blacktriangle " key: Points to the up arrow button in the navigation pad.
- " \blacktriangledown " key: Points to the down arrow button in the navigation pad.
- " \blacktriangleleft " key: Points to the left arrow button in the navigation pad.
- " \blacktriangleright " key: Points to the right arrow button in the navigation pad.

* : Refer to "6.1.1 How to Enter Service Mode".

6.1.1 How to Enter the Service Factory Mode



Note 1: If the remote control unit for adjustment with the factory (AA5F) code is used.

6.1.2 General Information about the Plasma Display and Media Receiver

● Display example of the first page

No.	1/18	INPUT1 No SIG			
1	CENTER Version	MR MAIN E	2001/09/25	H	
2	OSD Version	MR OSD	2001/09/10	A	
3	CVIC Version	W2001/09/12	09:00	X2001/09/12	09:07 V2001/09/12 09:10
4	TTXP Version	TTX PRG		061	
5	MONITOR Version	F6	91	10	
6	PANEL Version	-00			
7	FLASH Version	-05			
8	MONITOR Model	01			
9	Model Select Main	0			
10	Model Select AV	4			
11	Model Select MONITOR	0			
12	Sensore Temp	+28			
13	Center Acutime	16	H	41	M
14		RESET	OFF		
15	Monitor Acutime	47	H	42	M
16		RESET	OFF		
17	Pulse Acutime	164			
18		RESET	OFF		

No.	1/18	Item	Explanation
1	CENTER Version	Main software version information of the media receiver	
2	OSD version	OSD version information of the media receiver	
3	CVIC Version	IP/resize IC control software version information of the media receiver	
4	TTXP Version	Text microcomputer software version information of the media receiver	
5	MONITOR Version	Module microcomputer software version information of the PDP	
6	PANEL Version	Panel microcomputer version information of the PDP	Reference
7	FLASH Version	Panel flash ROM version information of the PDP	
8	MONITOR model	PDP model information	01: PIONEER 50 inches, 02: PIONEER 43 inches, 11: SHARP 50 inches, 12: SHARP 43 inches
9	Model Select Main	Media receiver model information	
10	Model Select AV	Media receiver model information	
11	Model Select MONITOR	PDP destination information	0: All SHARP destinations, Japanese and North America destinations of PIONEER, 3: European and general destinations of PIONEER
12	Sensor Temp	Temperature information of panel temperature sensor on the PDP	This is internal temperature information. This is not an environmental temperature.
13	Center Acutime	Media receiver accumulation operating time	
14	RESET	Media receiver accumulation operating time reset	Turn the display on by pressing the VOL+ key, then press the ENTER key. The accumulated time will be reset to zero.
15	Monitor Acutime	PDP accumulation operating time	
16	RESET	PDP accumulation operating time reset	Turn the display on by pressing the VOL+ key, then press the ENTER key. The accumulated time will be reset to zero.
17	Pulse Acutime	PDP accumulation pulse number	Real accumulation pulse number becomes "indicated value *10,000,000 pulse".
18	RESET	PDP accumulation pulse number reset	Turn the display on by pressing the VOL+ key, then press the ENTER key. The accumulated number will be reset to zero.

Note: The actual page structure may be different.

● Display example of the eleventh page

No.	11/18	INPUT1 No	SIG	HDCP:ON		
1	TROUBLE RECORD1	0000	NONE			
2		350		H	57	M
3		+25				
4						
5	TROUBLE RECORD2	1600	XDRIVE PD			
6		300		H	15	M
7		+45				
8						
9	TROUBLE RECORD3	0200	ADRK PD			
10		250		H	19	M
11		+65				
12						
13	TROUBLE RECORD4	1500	YDCDC PD			
14		200		H	25	M
15						
16						
17						
18						
19						

No.	11/18	Item	Explanation
1	TROUBLE RECORD1	Record of the latest PD in the PD history	Disregard the first four-digit number. Following this number, information on the PD is displayed.
2		Accumulated time during which the power to the panel was on when Trouble 1 occurred	H: Hour, M: Minute
3		Temperature at the internal sensor when Trouble 1 occurred	Maximum temperature to be displayed: +94°C
4			
5	TROUBLE RECORD2	Record of the second latest PD in the PD history	Disregard the first four-digit number. Following this number, information on the PD is displayed.
6		Accumulated time during which the power to the panel was on when Trouble 2 occurred	H: Hour, M: Minute
7		Temperature at the internal sensor when Trouble 2 occurred	Maximum temperature to be displayed: +94°C
8			
9	TROUBLE RECORD3	Record of the third latest PD in the PD history	Disregard the first four-digit number. Following this number, information on the PD is displayed.
10		Accumulated time during which the power to the panel was on when Trouble 3 occurred	H: Hour, M: Minute
11		Temperature at the internal sensor when Trouble 3 occurred	Maximum temperature to be displayed: +94°C
12			
13	TROUBLE RECORD4	Record of the fourth latest PD in the PD history	Disregard the first four-digit number. Following this number, information on the PD is displayed.
14		Accumulated time during which the power to the panel was on when Trouble 4 occurred	H: Hour, M: Minute
15		Temperature at the internal sensor when Trouble 4 occurred	Maximum temperature to be displayed: +94°C

Note: The failure point of a PD, corresponding to the number of blinks of the red LED, is indicated in the PD history as follows:

Number of blinks	Failure Point	Indications in the PD history
1	Y-DRIVE	YDRIVE PD
2	Y-DC/DC CONVERTER	YDCDC PD
3	X-DC/DC CONVERTER	XDCDC PD
4	X-DRIVE	XDRIVE PD
5	Power supply	0000 NONE
6	Address junction	ADR PD
7	Address resonance	ADRK PD
8	DIGITAL-DC/DC CONVERTOR	DCC PD

A PD record representing 5 blinks of the red LED (a PD of the power-supply section) must display "0000 NONE," accumulated time, and temperature together. If only "0000 NONE" is displayed, but the accumulated time and temperature are zero, it means there was no PD. If "0000 NONE" is displayed and the internal sensor temperature is 78°C or more, it represents a record of a shutdown (SD) prompted by abnormal temperature (indicated by 4 blinks of the green LED), and not a record of a PD of the power-supply section.

Note: The actual page structure may be different.

6.1.3 Adjustment and Setting Item of the Plasma Display

● Display example of the twelfth page

No.	12/18	INPUT1 No	SIG
1	MNTR V50 WB	02	
2	MNTR V60 WB	01	
3	MNTR PC WB	01	
4	MNTR R HIGH1	255	
5	MNTR G HIGH1	255	
6	MNTR B HIGH1	254	
7	MNTR R LOW1	510	
8	MNTR G LOW1	509	
9	MNTR B LOW1	512	
10	MNTR R HIGH2	255	
11	MNTR G HIGH2	255	
12	MNTR B HIGH2	254	
13	MNTR R LOW2	510	
14	MNTR G LOW2	511	
15	MNTR B LOW2	512	
16			
17			
18			

No.	12/18	Item	Adjustable Range	Factory Setting	Storage Place
1	MNTR V50 WB	PDP_W/B table selection at VIDEO 50Hz	1 or 2	2	PDP
2	MNTR V60 WB	PDP_W/B table selection at VIDEO 60Hz	1 or 2	1	PDP
3	MNTR PC WB	PDP_W/B table selection at PC	1 or 2	1	PDP
4	MNTR R HIGH1	RED_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
5	MNTR G HIGH1	GREEN_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
6	MNTR B HIGH1	BLUE_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
7	MNTR R LOW1	RED_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
8	MNTR G LOW1	GREEN_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
9	MNTR B LOW1	BLUE_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
10	MNTR R HIGH2	RED_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
11	MNTR G HIGH2	GREEN_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
12	MNTR B HIGH2	BLUE_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
13	MNTR R LOW2	RED_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
14	MNTR G LOW2	GREEN_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
15	MNTR B LOW2	BLUE_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP

Note on PDP W/B (No. 4 to 15) adjustment:

During adjustment, the value being adjusted is valid regardless of the actual input signal. For example, if the settings for the table selections (No. 1 and 2) remain at the factory preset settings, even if a PAL signal is being input, while [MNTR R HIGH1] is adjusted, the value in W/B table 1 is adjusted even if a PAL signal is being displayed.

After adjustment, if the PDP is restarted in the normal mode, the value in W/B table 2 will be used during PAL signal input, and the value in W/B table 1 will be used during NTSC signal input.

Note: The actual page structure may be different.

● Display example of the thirteenth page (1/2)

No.	13/18	INPUT1 No SIG
1	ABL VIDEO60 PC	118
2	ABL VIDEO50	122
3	VOFS ADJ	131
4	VSUS ADJ	128
5	XSUSB ADJ	08
6	XSUSG ADJ	08
7	YSUSB ADJ	08
8	YSUSG ADJ	08
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

No.	13/18	Item	Adjustable Range	Factory Setting	Storage Place
1	ABL VIDEO60 PC	Electric power setting at the PC, VIDEO 60Hz	0 to 255	Factory adjustment value	PDP
2	ABL VIDEO50	Electric power setting at VIDEO 50Hz	0 to 255	Factory adjustment value	PDP
3	VOFS ADJ	VOFS voltage setting	0 to 255	Factory adjustment value	PDP
4	VSUS ADJ	VSUS voltage setting	0 to 255	Factory adjustment value	PDP
5	XSUSB ADJ	SUS_B timing setting of X drive	0 to 15	Factory adjustment value	PDP
6	XSUSG ADJ	SUS_G timing setting of X drive	0 to 15	Factory adjustment value	PDP
7	YSUSB ADJ	SUS_B timing setting of Y drive	0 to 15	Factory adjustment value	PDP
8	YSUSG ADJ	SUS_G timing setting of Y drive	0 to 15	Factory adjustment value	PDP

If you fail to correctly adjust the above items 1 to 8, the unit may be damaged. Be very careful when making adjustments.

Note on the electric-power-setting adjustment (No. 1 and 2):

During adjustment, the value being adjusted is valid regardless of the actual input signal. For example, even if a PAL signal is being input, while [ABL VIDEO60 PC] is adjusted, the value for the [ABL VIDEO60 PC] is adjusted even if a PAL signal is being displayed.

After the adjustment, if the PDP is restarted in the normal mode, the unit will operate on [ABL VIDEO50] during PAL signal input, and on [ABL VIDEO60 PC] using your adjusted values during NTSC signal input.

Note: The actual page structure may be different.

● Display example of the thirteenth page (2/2)

No.	13/18	INPUT1 No SIG
1	VIDEO DRIVE MODE	00
2	PC DRIVE MODE	03
3	NEGATIVE MODE	OFF
4	BRIGHT ENHANCE	OFF
5	MASK V FREQ	50
6	PATTERN MASK	OFF
7	FULL MASK	OFF
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

No.	13/18	Item	Adjustable Range	Factory Setting	Storage Place
1	VIDEO DRIVE MODE	Drive mode selection at VIDEO	0 to 5	0	PDP
2	PC DRIVE MODE	Drive mode selection at PC	0 to 5	3	PDP
3	NEGATIVE MODE	Negative positive inversion mode	OFF/ON	OFF	PDP
4	BRIGHT ENHANCE	Bright enhance	OFF/ON	OFF	None
5	MASK V FREQ	Refresh rate at mask signal generation	50/60/70	–	None
6	PATTERN MASK	Pattern mask signal generation	OFF/	OFF	PDP
7	FULL MASK	Full mask signal generation	OFF/	OFF	PDP

Notes when using the mask signals (test signals generated inside the PDP):

- Either the pattern-mask signal or the full-mask signal can be used. Therefore, when the pattern-mask signal is to be used, set the full-mask signal to OFF, and when the full-mask signal is to be used, set the pattern-mask signal to OFF.

- As the pattern-mask and full-mask signals are both test signals generated from inside the PDP, while either of the signals is being generated, OSD signals or external video input signals cannot be checked.

Use the buttons on the main unit or the keys on the remote control unit for releasing a mask setting, changing each setting, adjustment, or checking external input signals. For 2 seconds after any operation is performed using the buttons on the main unit or the keys on the remote control unit, generation of a mask signal is stopped. During this period, it is possible to change any setting, make any adjustment, or check an external input signal.

Note: The actual page structure may be different.

6.2 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ SW POWER SUPPLY Module

- **When repaired**

No adjustment required.

■ DIGITAL VIDEO Assy

- **When repaired**

No adjustment required.

- **When replaced**

- Remove IC1204 (24LC04(1) SN-TBB) from the former PC Board and install it to the new PC Board.

■ MR INTERFACE Assy

- Set the slide SW referring to the table on page 22.

■ Y DRIVE Assy

- **When repaired**

Note: If the Pulse Module fails, it is not possible to repair the Y DRIVE Assy by replacing only the Pulse Module. Replace the entire Y DRIVE Assy.

- **When replaced**

1. VOFS/VH/IC5V voltage adjustment
2. Panel white balance adjustment

■ X DRIVE Assy

- **When repaired**

Note: If the Pulse Module fails, it is not possible to repair the X DRIVE Assy by replacing only the Pulse Module. Replace the entire X DRIVE Assy.

- **When replaced**

1. VRN voltage adjustment
2. Panel white balance adjustment

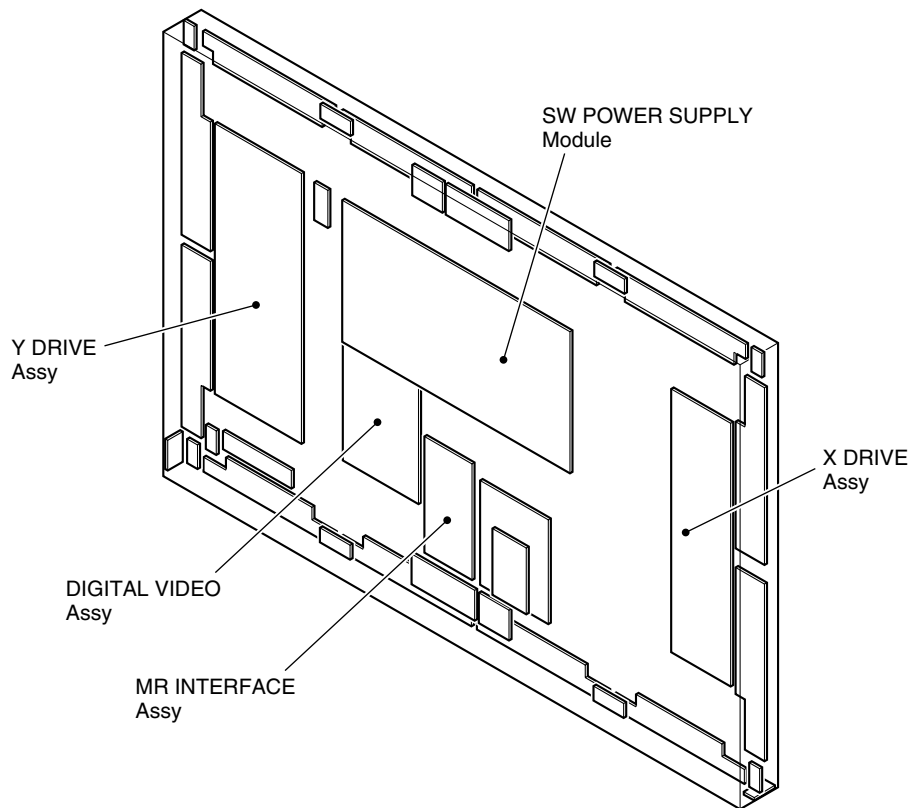


Fig. 1 Configuration of the PC Board (rear side view)

6.3 ADJUSTMENT



VOFS/VH/IC5V Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method																																																																																																																																				
White 100%	VR2701 (VOFS) (Y DRIVE Assy)	<p>VOFS (Offset voltage) adjustment</p> <p>Method 1</p> <ol style="list-style-type: none">1. Make a note of the adjustment value of VOFS ADJ in factory mode.2. Set the VOFS ADJ adjustment value to center (128).3. Turn the VR2701 so that the voltage between K2710 (VOFS) and K2703 (SUS GND) becomes 45V.4. Return the VOFS ADJ adjustment value to that which you wrote down in Step 1. <p>Method 2</p> <ol style="list-style-type: none">1. Read the adjustment value of VOFS ADJ in the factory mode.2. Turn the VR2701 so that the voltage between K2710 (VOFS) and K2703 (SUS GND) becomes the corresponding value indicated in the table below (tolerance: ± 5): <table><tr><th>Input Command</th><th>DAC Output</th><th>Setting Voltage</th><th>Input Command</th><th>DAC Output</th><th>Setting Voltage</th></tr><tr><td>VOF000</td><td>0.4</td><td>25</td><td>VOF134</td><td>2.599212598</td><td>45.94488</td></tr><tr><td>VOF006</td><td>0.4984375</td><td>25.9375</td><td>VOF141</td><td>2.71496063</td><td>47.04724</td></tr><tr><td>VOF013</td><td>0.61328125</td><td>27.03125</td><td>VOF147</td><td>2.814173228</td><td>47.99213</td></tr><tr><td>VOF019</td><td>0.71171875</td><td>27.96875</td><td>VOF153</td><td>2.913385827</td><td>48.93701</td></tr><tr><td>VOF026</td><td>0.8265625</td><td>29.0625</td><td>VOF160</td><td>3.029133858</td><td>50.03937</td></tr><tr><td>VOF032</td><td>0.925</td><td>30</td><td>VOF166</td><td>3.128346457</td><td>50.98425</td></tr><tr><td>VOF038</td><td>1.0234375</td><td>30.9375</td><td>VOF172</td><td>3.227559055</td><td>51.92913</td></tr><tr><td>VOF045</td><td>1.13828125</td><td>32.03125</td><td>VOF179</td><td>3.343307087</td><td>53.0315</td></tr><tr><td>VOF051</td><td>1.23671875</td><td>32.96875</td><td>VOF185</td><td>3.442519685</td><td>53.97638</td></tr><tr><td>VOF058</td><td>1.3515625</td><td>34.0625</td><td>VOF191</td><td>3.541732283</td><td>54.92126</td></tr><tr><td>VOF064</td><td>1.45</td><td>35</td><td>VOF198</td><td>3.657480315</td><td>56.02362</td></tr><tr><td>VOF070</td><td>1.5484375</td><td>35.9375</td><td>VOF204</td><td>3.756692913</td><td>56.9685</td></tr><tr><td>VOF077</td><td>1.66328125</td><td>37.03125</td><td>VOF211</td><td>3.872440945</td><td>58.07087</td></tr><tr><td>VOF083</td><td>1.76171875</td><td>37.96875</td><td>VOF217</td><td>3.971653543</td><td>59.01575</td></tr><tr><td>VOF090</td><td>1.8765625</td><td>39.0625</td><td>VOF223</td><td>4.070866142</td><td>59.96063</td></tr><tr><td>VOF096</td><td>1.975</td><td>40</td><td>VOF230</td><td>4.186614173</td><td>61.06299</td></tr><tr><td>VOF102</td><td>2.0734375</td><td>40.9375</td><td>VOF236</td><td>4.285826772</td><td>62.00787</td></tr><tr><td>VOF109</td><td>2.18828125</td><td>42.03125</td><td>VOF242</td><td>4.38503937</td><td>62.95276</td></tr><tr><td>VOF115</td><td>2.28671875</td><td>42.96875</td><td>VOF249</td><td>4.500787402</td><td>64.05512</td></tr><tr><td>VOF122</td><td>2.4015625</td><td>44.0625</td><td>VOF255</td><td>4.6</td><td>65</td></tr><tr><td>VOF128</td><td>2.5</td><td>45</td><td></td><td></td><td></td></tr></table> <p>Signs of improper adjustment If the VOFS Voltage adjustment is not performed properly, blinking luminance points like dots appear. If the voltage deviates greatly from the right adjustment point, the panel will turn white when lit.</p>	Input Command	DAC Output	Setting Voltage	Input Command	DAC Output	Setting Voltage	VOF000	0.4	25	VOF134	2.599212598	45.94488	VOF006	0.4984375	25.9375	VOF141	2.71496063	47.04724	VOF013	0.61328125	27.03125	VOF147	2.814173228	47.99213	VOF019	0.71171875	27.96875	VOF153	2.913385827	48.93701	VOF026	0.8265625	29.0625	VOF160	3.029133858	50.03937	VOF032	0.925	30	VOF166	3.128346457	50.98425	VOF038	1.0234375	30.9375	VOF172	3.227559055	51.92913	VOF045	1.13828125	32.03125	VOF179	3.343307087	53.0315	VOF051	1.23671875	32.96875	VOF185	3.442519685	53.97638	VOF058	1.3515625	34.0625	VOF191	3.541732283	54.92126	VOF064	1.45	35	VOF198	3.657480315	56.02362	VOF070	1.5484375	35.9375	VOF204	3.756692913	56.9685	VOF077	1.66328125	37.03125	VOF211	3.872440945	58.07087	VOF083	1.76171875	37.96875	VOF217	3.971653543	59.01575	VOF090	1.8765625	39.0625	VOF223	4.070866142	59.96063	VOF096	1.975	40	VOF230	4.186614173	61.06299	VOF102	2.0734375	40.9375	VOF236	4.285826772	62.00787	VOF109	2.18828125	42.03125	VOF242	4.38503937	62.95276	VOF115	2.28671875	42.96875	VOF249	4.500787402	64.05512	VOF122	2.4015625	44.0625	VOF255	4.6	65	VOF128	2.5	45			
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	VR2703 (VH) (Y DRIVE Assy)	<p>VH (voltage for the scan IC) Adjustment</p> <p>Adjust so that the voltage between K2716 (VH) and K2720 (PSUS) becomes 130V ± 0.5V. PSUS (=GNDH) is a floating GND and its electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.</p> <p>Signs of improper adjustment If the VH adjustment is not performed properly, blinking luminance points like dots appear. If the voltage is deviated greatly from the right adjustment point, the panel will turn white when lit.</p>																																																																																																																																				
	VR2702 (IC5V) (Y DRIVE Assy)	<p>IC5V Adjustment</p> <p>Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0.1V. PSUS (=GNDH) is a floating GND and its electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.</p>																																																																																																																																				
Note : Be sure to measure between specified test points.																																																																																																																																						

■ Sustain Pulse Waveform Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	REF_DIG mode in Factory mode XSUSB ADJ YSUSB ADJ	X-SUS-B, Y-SUS-B Adjustment Set to the indicated value with the remote control unit.

■ VRN Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	VR3701 (VRN) (X DRIVE Assy)	VRN (minus reset voltage adjustment) Adjust so that the voltage between K3707 (VRN) and K3702 (SUS-GND) becomes $-300V \pm 1.0V$.

■ Panel White Balance Adjustment

Input Signal	Adjusting Point	Adjusting Method									
		<p>Adjust the OFFSET-DIGITAL parameters (from PANEL R-HIGH to PANEL B-LOW) in Factory mode.</p> <p>For adjustment, use the mask (MASK04) signal of Factory mode for display.</p> <p>Reference : Adjustment values when using the Minolta color-difference meter (A-100)</p> <table border="1"> <thead> <tr> <th></th><th>MASK Left Side</th><th>MASK Right Side</th></tr> </thead> <tbody> <tr> <td>x</td><td>295</td><td>291</td></tr> <tr> <td>y</td><td>306</td><td>300</td></tr> </tbody> </table>		MASK Left Side	MASK Right Side	x	295	291	y	306	300
	MASK Left Side	MASK Right Side									
x	295	291									
y	306	300									

Note: If you perform various adjustments with the RS-232C commands, be sure to execute a "DM0" command (releasing the pulse number limit) first, and after completion of the adjustment, be sure to execute a "DM3" command (pulse number limit: 64%, factory preset value).

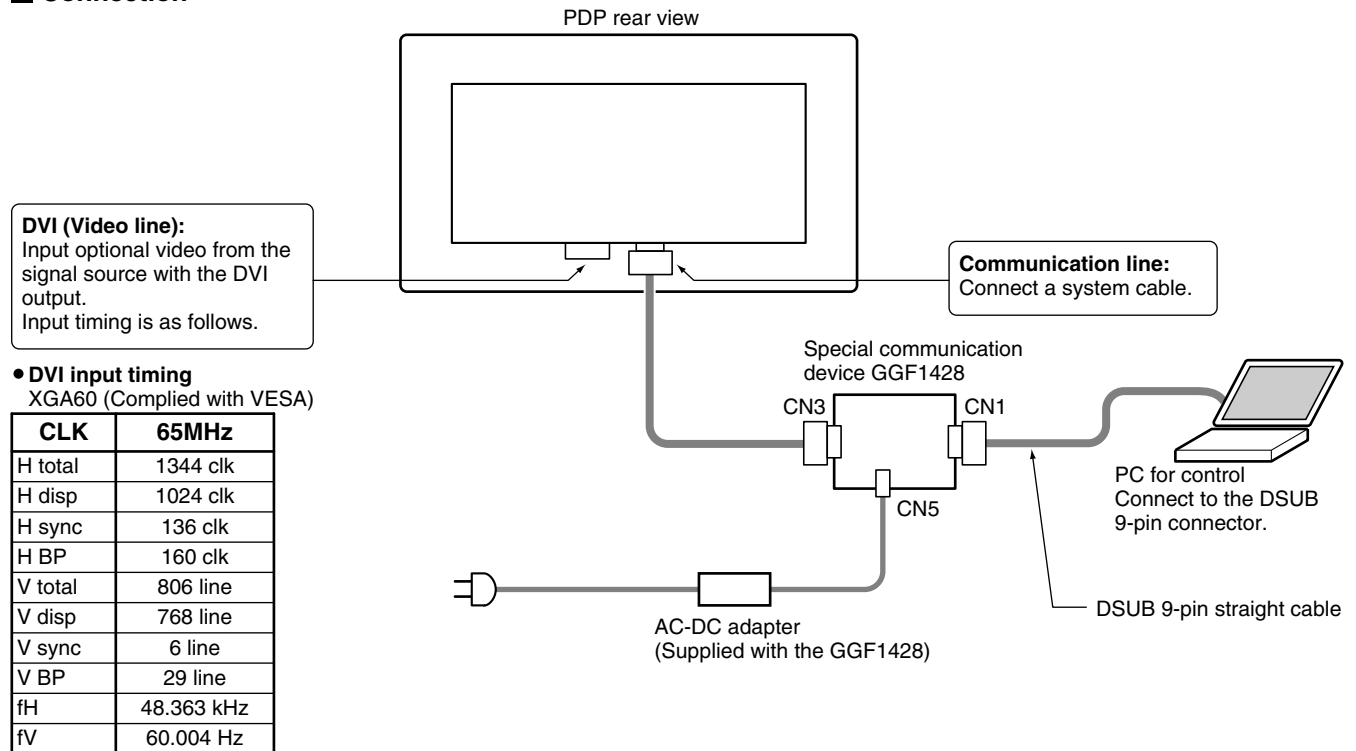
6.4 COMMANDS

6.4.1 RS-232C Commands

The panel control items for the PDP-503PU, PDP-503PE, PDP-503PG system can be controlled with the RS-232C commands by connecting a PC through a special communication device GGF1428 when the Media Receiver is not connected with the PDP.

Note: The DSUB (9-pin) connector at the rear of the Media Receiver cannot be used.

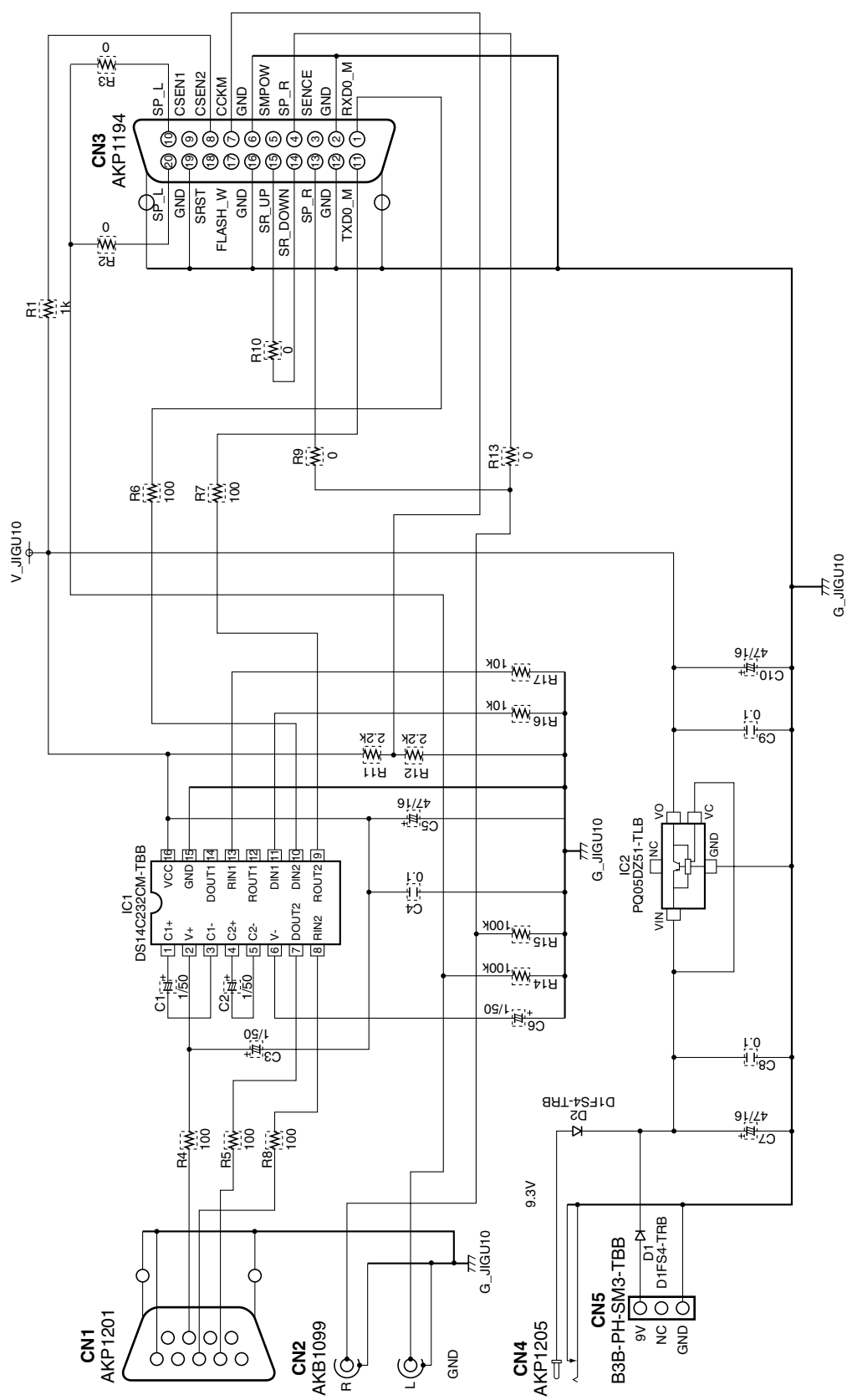
■ Connection



■ Communication baud rate

Fixed to 38400 bps.

■ Schematic Diagram of the special communication device



RS-232C Commands when the Media Receiver is not connected with the PDP

Command	Name	Function	Direct Validity	UP/DOWN Validity	Lower Limit	Upper Limit
AB0	ABL REFERENCE MODE	Setting the ABL to reference value				
AB1	ABL OFFSET MODE 1	Setting the ABL to offset value 1				
AB2	ABL OFFSET MODE 2	Setting the ABL to offset value 2				
AB3	ABL OFFSET MODE 3	Setting the ABL to offset value 3				
ABL	ABL ADJUST	Adjusting the upper limit of the power	O	O	000	255
AMN	AUDIO MUTE OFF	Mute off request of speaker volume				
AMY	AUDIO MUTE ON	Mute request of speaker volume				
DRF	DRIVE OFF	Drive OFF				
DRN	DRIVE ON	Drive ON				
DW0	DOWN 0	Lowering the adjustment value by 10				
DWF	DOWN FULL	Minimizing the adjustment value				
DWn	DOWN n	Lowering the adjustment value by n				
EWN	EEPROM WRITE NO	Completing the plug & play EEPROM writing mode				
EWY	EEPROM WRITE YES	Starting the plug & play EEPROM writing mode				
F50	FREE RUN 50VIDEO	Displaying the mask screen with 50Hz (video) sequence				
F60	FREE RUN 60VIDEO	Displaying the mask screen with 60Hz (video) sequence				
F61	FREE RUN 60PC	Displaying the mask screen with 60Hz (PC) sequence				
F70	FREE RUN 70PC	Displaying the mask screen with 70Hz (PC) sequence				
GAJ *	GET ADJUST	Acquiring the various adjustment value of the display				
GPW *	GET PANEL W/B	Acquiring the W/B adjustment value of the panel				
GS1 *	GET STATUS 1	Acquiring the version information				
HMS	HOURLY METER SET	Setting hour meter to optional time				
M00	MASK 00	Mask mode OFF				
M01	MASK 01	Pattern 1 (Lamps)				
M02	MASK 02	Pattern 2 (Color bars)				
M03	MASK 03	Pattern 3 (Slanting lines)				
M04	MASK 04	Pattern 4 (W/B measurement)				
M05	MASK 05	Pattern 5 (W/B adjustment)				
M06	MASK 06	Pattern 6 (W/B peak measurement)				
M07	MASK 07	Pattern 7 (Peak measurement)				
M08	MASK 08	Pattern 8 (Reservation)				
M09	MASK 09	Pattern 9 (SCAN IC protection test)				
M10	MASK 10	Pattern 10 (SCAN IC protection test)				
M11	MASK 11	Pattern 11 (reservation)				
M12	MASK 12	Pattern 12 (reservation)				
M13	MASK 13	Pattern 13 (reservation)				
M14	MASK 14	Pattern 14 (reservation)				
M51	MASK 51	Full mask (white)				
M52	MASK 52	Full mask (cyan 274)				
M53	MASK 53	Full mask (magenta 1023)				
M54	MASK 54	Full mask (flesh color)				
M55	MASK 55	Full mask (cyan 1023)				
M56	MASK 56	Full mask (light purple)				
M57	MASK 57	Full mask (sky blue)				
M58	MASK 58	Full mask (red)				
M59	MASK 59	Full mask (green)				
M60	MASK 60	Full mask (blue)				
M61	MASK 61	Full mask (black)				
M62	MASK 62	Full mask (red 779)				
M63	MASK 63	Full mask (cyan 218)				
M64	MASK 64	Full mask (cyan 444)				
M65	MASK 65	Full mask (flesh color 43)				
M66	MASK 66	Full mask (red 620)				
M67	MASK 67	Full mask (magenta 98)				
M68	MASK 68	Full mask (sky blue 1_43)				

* See "6. 4. 2 GET Commands".

RS-232C Commands when the Media Receiver is not connected with the PDP

Comman	Name	Function	Direct Validity	UP/DOW N Validity	Lower Limit	Upper Limit
A	M69	MASK 69				
	M70	MASK 70				
	M71	MASK 71				
	M72	MASK 72				
	M73	MASK 73				
	M74	MASK 74				
	MMN	MIRROR MODE NO				
B	MMX	MIRROR MODE X				
	MMY	MIRROR MODE Y				
	MMZ	MIRROR MODE XY				
	MTN	PANEL MUTE NO				
	MTY	PANEL MUTE YES				
	NMN	NEGATIVE MODE NO				
	NMY	NEGATIVE MODE YES				
	PBH	PANEL BLUE HIGH	O	O	000	255
	PBL	PANEL BLUE LOW	O	O	000	999
	PGH	PANEL GREEN HIGH	O	O	000	255
C	PGL	PANEL GREEN LOW	O	O	000	999
	PHN	PANEL HIGHT-LIGHT NO				
	PHY	PANEL HIGHT-LIGHT YES				
	PLN	BRIGHT ENHANCE NO				
	PLY	BRIGHT ENHANCE YES				
	PMS	PULSE METER SET				
	POF	POWER OFF				
	PON	POWER ON				
	PRH	PANEL RED HIGH	O	O	000	255
	PRL	PANEL RED LOW	O	O	000	999
D	PCN	PC MODE NO				
	PCY	PC MODE YES				
	PT0	PANEL COLOR TEMP 0				
	PT1	PANEL COLOR TEMP 1				
	PT2	PANEL COLOR TEMP 2				
	UP0	UP 0				
	UPF	UP FULL				
	UPn	UP n				
	VOF	VOFFSET ADJUST	O	O	000	255
	VOL	VOLUME	O	O	000	060
E	VSU	VSUS ADJUST	O	O	000	255
	XSB	XSUS B	O	O	000	015
	XSG	XSUS G	O	O	000	015
	YSB	YSUS B	O	O	000	015
	YSG	YSUS G	O	O	000	015

6.4.2 GET Commands

● Command Description

Command	Function
GAJ	Outputting data for electronic-control-adjustment values and drive-system-adjustment values
GPW	Outputting data relating to the white-balance adjustment for the panel
GS1	Outputting data such as version information, and data from the hour meter and pulse meter

GAJ: Outputting data for electronic-control-adjustment values and drive-system-adjustment values

- Output the data according to the order and size of the table below.

Order	Data Contents	Size	Remarks
1	Setting mode of electric power upper limit value	3 byte	AB* (*: 0 to 3)
2	Electric power upper limit value (ABL)	(Reference data)	3 byte
3		(Offset data)	3 byte (Note 1)
4	Vsus adjustment value	(Reference data)	3 byte
5	Vofs adjustment value	(Reference data)	3 byte
6	V-SUS-B adjustment value	(Reference data)	3 byte
7	V-SUS-G adjustment value	(Reference data)	3 byte
8	Y-SUS-B adjustment value	(Reference data)	3 byte
9	Y-SUS-G adjustment value	(Reference data)	3 byte

(Note 1) : If data are output when Reference mode is selected, the same data as the reference data are output as the offset data.

(Note 2) : A checksum of 2 bytes is added at the end, but this can be ignored.

GPW: Outputting data relating to the white-balance adjustment for the panel

- Output the data according to the order and size of the table below.

Order	Data Contents	Size	Remarks
1	Panel color temperature mode	3 byte	PT* (*: 0 to 3)
2	Gain of W/B adjustment value Red	(Reference data)	3 byte
3		(Offset data)	3 byte (Note 1)
4	Gain of W/B adjustment value Green	(Reference data)	3 byte
5		(Offset data)	3 byte (Note 1)
6	Gain of W/B adjustment value Blue	(Reference data)	3 byte
7		(Offset data)	3 byte (Note 1)
8	Offset of W/B adjustment value Red	(Reference data)	3 byte
9		(Offset data)	3 byte (Note 1)
10	Offset of W/B adjustment value Green	(Reference data)	3 byte
11		(Offset data)	3 byte (Note 1)
12	Offset of W/B adjustment value Blue	(Reference data)	3 byte
13		(Offset data)	3 byte (Note 1)

(Note 1) : If data are output when Reference mode is selected, the same data as the reference data are output as the offset data.

(Note 2) : A checksum of 2 bytes is added at the end, but this can be ignored.

GS1: Outputting data such as version information, and data from the hour meter and pulse meter

- Output the data according to the order and size of the table below.

Order	Data Contents	Size	Remarks
1	Display information	3 byte	See below
2	Module microcomputer model number	4 byte	5691 or F691
3	Module microcomputer version	3 byte	
4	Panel microcomputer version	3 byte	
5	Panel /FLASH ROM version	3 byte	
6	Hour meter (hour)	5 byte	Unit: H (hour)
7	Pulse meter	7 byte	Unit: 0.01G (10,000,000)
8	Main microcomputer model number	4 byte	5692 or F692
9	Main microcomputer version	3 byte	
10	Wide microcomputer version	3 byte	
11	Wide /FLASH ROM version	3 byte	

Note: A checksum of 2 bytes is added at the end, but this can be ignored.

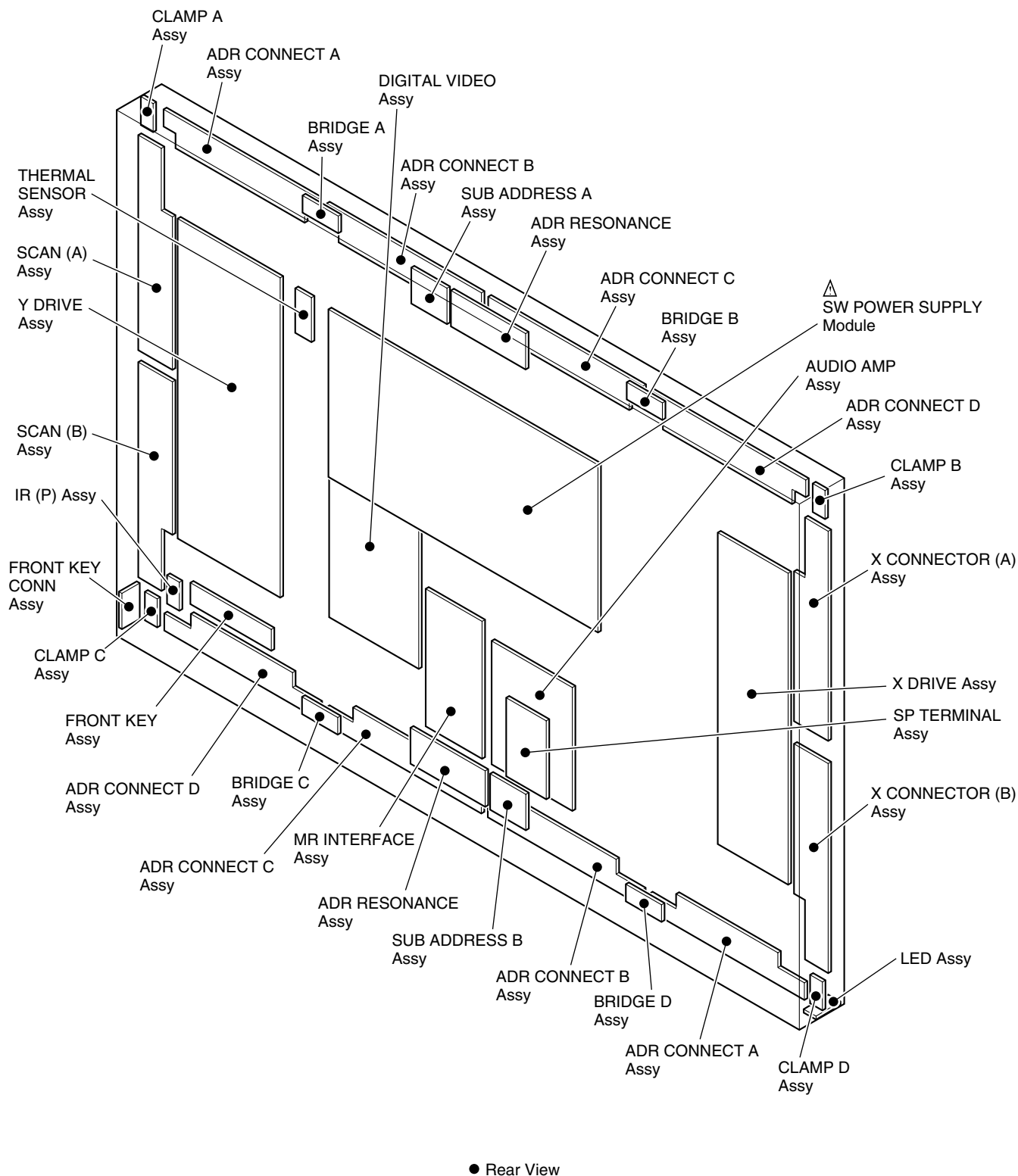
■ Display Information

Data	Model
MX5	PDP-503MX (initial value)
MX4	PDP-433MX
MD5	Module 50 inches
MD4	Module 43 inches
HD5	PDP-503HD
HD4	PDP-433HD

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 CONFIGURATION OF THE PC BOARD



7.1.2 DIAGNOSIS FOR SHUTDOWN AND POWER-DOWN DIAGNOSIS BY LED

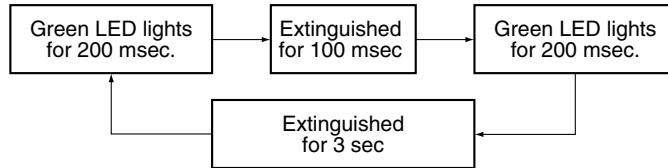
This unit has self-diagnosis functions against abnormalities in the internal circuits and other operational abnormalities, and if any abnormality is detected, the STANDBY/ON indicator (LED) blinks to alert you of it.

How the indicator blinks and possible failure points and power-down points are explained below:

● Shutdown

- Operations : When a microcomputer has detected an abnormality, it turns the power supply to OFF.
- LED display : Blinking in green

Example: How the LED blinks when DIGITAL-IIC communications fail



Number of blinking	Reason
1	Panel Microcomputer failure
2	DIGITAL-IIC communication failure
4	Temperature abnormality

How to release shutdown

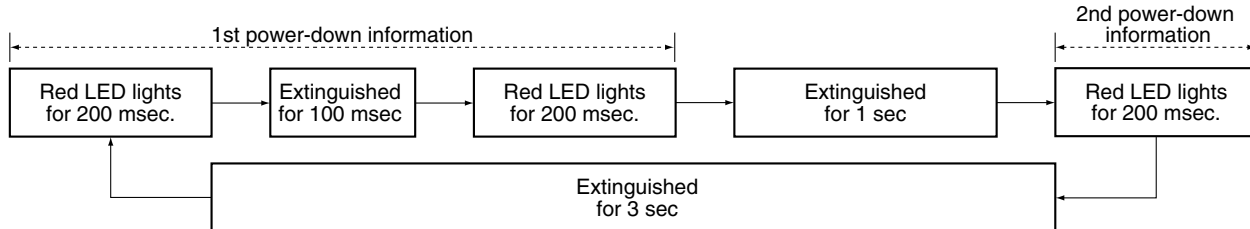
Press the power key on the remote control to switch the unit back on.
(It is not necessary to press the MAIN POWER button to turn off the unit.)

● Power-down

- Operations : In an emergency, the protection circuits are activated, and the power is turned off.
- LED display : Blinking red

Note: If more than two protection circuits are activated at almost the same time, the LED indicates this by its blinking-pattern.

Example: How the LED blinks for the first power-down (Y-DC/DC CONVERTER) and the second power-down (Y DRIVE)



Number of blinks	Failure Point
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	Address junction
7	Address resonance
8	DIGITAL-DC/DC CONVERTER

How to release power-down

Set the MAIN POWER button to OFF, and wait for about 30 seconds until the LED for PD (power-down) in the power-supply module is extinguished. Wait another 5 seconds, then recover the unit by setting the MAIN POWER button to ON.

Note: After power-down is released, the unit restarts and goes to Standby mode.

● Shutdown diagnosis

① Panel microcomputer failure

Screen display

Condition : When a module microcomputer failed in communication with a panel microcomputer

Results : An OSD is displayed for 30 seconds after the failure is detected; then the power is shut down.

Possible causes

- Open/short-circuit of the communication lines in the assembly

E06

② DIGITAL-IIC communication failure

Condition : When a module microcomputer failed in communication with an external EEPROM or EXPANDER

Results : An OSD is displayed for 30 seconds after the failure is detected; then the power is shut down.

Note: A DIGITAL-IIC communication failure may occur in Standby mode.

Possible causes

- Open / Short-circuit of communication line in the DIGITAL VIDEO, MR INTERFACE and AUDIO Assys
- Breaking of wire between the following points:
DIGITAL VIDEO Assy (D1) ↔ SW POWER SUPPLY Module (P2)
DIGITAL VIDEO Assy (D3) ↔ MR INTERFACE Assy (R3)
MR INTERFACE Assy (R23) ↔ AUDIO Assy (A24)
System Cable

E06

③ Abnormally high temperature

Condition : when the internal temperature of the unit becomes abnormally high

Results : An OSD is displayed for 30 seconds after the failure is detected; then the power is shut down.

Note: If the internal temperature of the unit becomes lower while the OSD is displayed, the unit returns to normal operation.

Possible causes if this abnormality occurs in an environment in which the temperature is not so high

Disconnection between the DIGITAL VIDEO Assy (D18) and temperature sensor 1 (TE1)

E04

Reference

Shutdown temperature of each temperature sensor
Sensor Temp ≥ 78

	1/13	INPUT1 No SIG			
1	CENTER Version	MR MAIN E 2001/09/25 H			
2	OSD Version	MR OSD 2001/09/10 A			
3	CVIC Version	W2001/09/12 09:00	X2001/09/12 09:07	V2001/09/12 09:10	
4	TTXP Version	TTX PRG		061	
5	MONITOR Version	F6 91 10			
6	PANEL Version	-00			
7	FLASH Version	-05			
8	MONITOR Model	01			
9	Model Select Main	0			
10	Model Select AV	4			
11	Model Select MONITOR	0			
12	Sensore Temp	+28			
13	Center Acutime	16	H 41 M		
14		RESET OFF			
15	Monitor Acutime	47	H 42 M		
16		RESET OFF			
17	Pulse Acutime	164			
18		RESET OFF			

A ■
B ■
C ■
D ■
E ■
F ■



● Types and functions of the various protection circuits (P.D. circuits)

Assy Name	Red "STAND-BY/ON" LED Number of Blinks	Type of P.D. Circuits	Function	Remarks
Y DRIVE Assy	1	VCP OCP	P.D. by VCP overcurrent	
	2	VOFS OVP	P.D. by VOFS overvoltage	
		VOFS UVP	P.D. by VOFS undervoltage (= overcurrent)	
		VH OVP	P.D. by VH overvoltage	
		VH UVP	P.D. by VH undervoltage (= overcurrent)	
		IC5V UVP	P.D. by IC5V undervoltage (= overcurrent)	
X DRIVE Assy	3	VRN OVP	P.D. by VRN overvoltage	
		VRN UVP	P.D. by VRN undervoltage (= overcurrent)	
	4	VCP OCP	P.D. by VCP overcurrent	
SW POWER SUPPLY Module	5	VSUS OVP	P.D. by VSUS overvoltage	
		VSUS UVP	P.D. by VSUS undervoltage (= overcurrent)	
		VADR OVP	P.D. by VADR overvoltage	
		VADR UVP	P.D. by VADR undervoltage (= overcurrent)	
		15V OVP	P.D. by 15V overvoltage	
		15V UVP	P.D. by 15V undervoltage (= overcurrent)	
		12V UVP	P.D. by 12V undervoltage (= overcurrent)	
		6.5V OVP	P.D. by 6.5V overvoltage	
		6.5V UVP	P.D. by 6.5V undervoltage (= overcurrent)	
		13.5V UVP	P.D. by 13.5V undervoltage (= overcurrent)	
		-9V UVP	P.D. by -9V undervoltage (= overcurrent)	
		+B OVP	P.D. by +B overvoltage	
		+B OCP	P.D. by +B overcurrent	
		AC200V P.D.	P.D. by AC200V applied	Note 1
			PFC module overheat protection	
			VSUS arc resistance overheat protection	
ADR CONNECT Assy	6	ADR.PD	P.D. by disconnection of connectors	
RESONANCE Assy	7	ADR.K.PD	P.D. by ICP open and TCP defective	
DIGITAL VIDEO Assy	8	5.0V OVP	P.D. by 5V overvoltage	
		5.0V UVP	P.D. by 5V undervoltage (= overcurrent)	
		3.3V OVP	P.D. by 3.3V overvoltage	
		3.3V UVP	P.D. by 3.3V undervoltage (= overcurrent)	
		2.5V OVP	P.D. by 2.5V overvoltage	
		2.5V UVP	P.D. by 2.5V undervoltage (= overcurrent)	

Reference

OVP : Over Voltage Protect

UVP : Under Voltage Protect

OCP : Over Current Protect

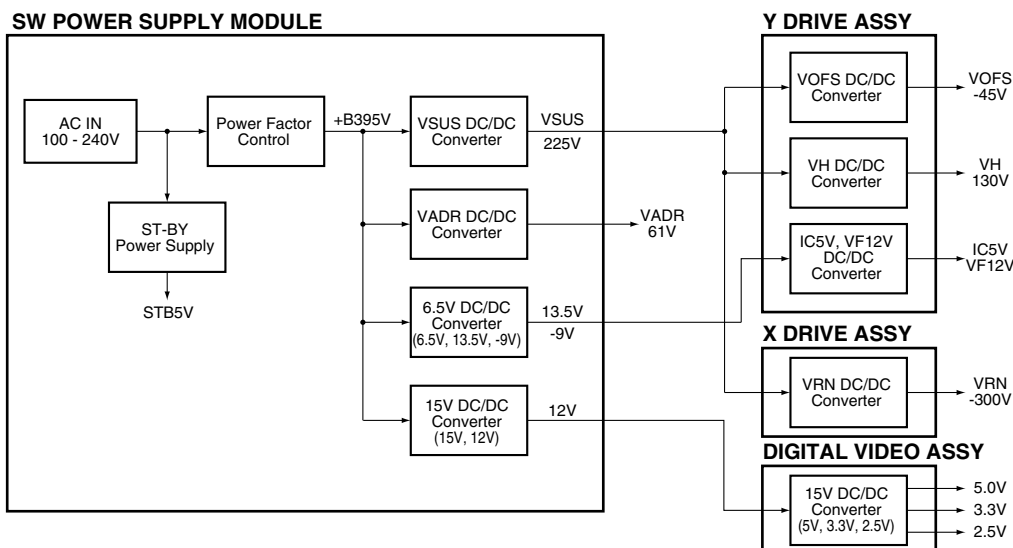
PD : Power Down

Note 1: The AC200V P.D. circuit is not mounted in the PDP-503PE and PDP-503PU models.

● Diagnosis of error points in the various protection-circuit (P.D. circuits) operations (Red "STANDBY/ON" LED blinks)

Number of Blinks	P.D. Point in Operation	Error Point	Possible Part in failure	Circuit State	P.D. Circuit in Operation	Diagnosis Condition
1	Y DRIVE	Y DRIVE Assy	IC2206, IC2214 (Pulse module), IC2203, IC2204, IC2212, IC2213, IC2213, IC2217, R2209	K2211 Lo	VCP OCP	
2	Y DC DC	VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2702, IC2709, IC2715	K2712 Lo	VOFS OVP	
		VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2701, IC2702, IC2709, IC2715	K2709 Lo	VOFS UVP	Drive section (control signals, output elements etc.) in normal operation
		VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2712, IC2716	K2719 Lo	VH OVP	VOFS D/D CONV. BLOCK in normal operation
		VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2711, IC2712, IC2716			Drive section (control signals, output elements etc.) in normal operation
		SCAN (A), (B) Assy	SCAN IC	K2718 Lo	VH UVP	VH D/D CONV. BLOCK in normal operation
3	X DC DC	IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717			SCAN Assy in normal operation
		SCAN (A), (B) Assy	SCAN IC	K2713 Lo	IC5V UVP	IC5V D/D CONV. BLOCK in normal operation
		IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717	K3708 Lo	VRN OVP	SCAN Assy in normal operation
		VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3702, IC3712			
		VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3701, IC3702, IC3712	K3705 Lo	VRN UVP	Drive section (control signals, output elements etc.) in normal operation
4	X DRIVE	X DRIVE Assy	Q3122	K3103 Lo	VCP OCP	VRN D/D CONV. BLOCK in normal operation
5	PS	X DRIVE Assy	IC3200, IC3201 (Pulse module)			In a case where PD does not occur if the P4 connector is disconnected
		Y DRIVE Assy	IC2206, IC2214 (Pulse module)			In a case where PD does not occur if the P3 connector is disconnected
		MX AUDIO Assy	IC8601 (Audio IC)			In a case where PD does not occur if the P6 connector is disconnected
		ADDRESS CONNECT A - D Assy, RESONANCE Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy)				In a case where PD does not occur if Pin 5 of the P2 connector is disconnected
		SW POWER SUPPLY Module	SW POWER SUPPLY Module			In a case where the voltage is not output even if the P4, P3, P6 connectors and Pin 5 of the P2 connectors are disconnected
6	ADR	ADDRESS CONNECT A-D Assy	Disconnection of the D8 - D15 connectors		ADR. PD	
7	ADR K	RESONANCE Assy	TCP damage of IC6704 (ICP), disconnection of the D16 and D17 connectors, panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective.		ADR. K. PD	
8	DIGITAL DC DC	D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1901 Lo	5.0V OVP	<p>Note on PS PD When the Red "STANDBY/ON" LED blinks five times (power supply PD)</p> <p>1 When the internal protection circuit of the SW POWER SUPPLY Module worked</p> <p>2 When a microcomputer was not able to identify the PD point</p> <p>Care must be taken, because five blinks of the red LED does not always mean that the protection circuit of the SW POWER SUPPLY Module is activated.</p>
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1902 Lo	5.0V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1903 Lo	3.3V OVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1904 Lo	3.3V UVP	
		D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1905 Lo	2.5V OVP	
				K1906 Lo	2.5V UVP	

● Block diagram of the Power supply section



● Supplementary information

1. Power on/off switch for the large-signal system (SW102)

Function: Only the power for the small-signal system (15V, 12V, 6.5V, 13.5V, and -9V) is on, and the power for the large-signal system (VSUS, VADR) is off.

Usage: Use when only an operational check for the small-signal system is required.

Supplementary information:

When this switch is to be used, the wires of pin 5 (DIG, ADR, and PD) of the P2 connector of the power-supply module should be disconnected to prevent the PD circuit from operating. To turn the power of the large-signal system off without using this switch, operation from an external PC through RS-232C commands "DRF" is basically required. In this case, the above procedure is not required, as the PD circuit is muted by software.

How to turn on the power with a command sent via RS-232C communication when the large signal system's power is off

- ① Check that the unit is in Standby mode.
- ② Transmit the RS-232C command "DRF."
- ③ Turn on the power using the remote control unit, side keys, or the command "PON."

Note: Once the power is turned off, the setting of the large signal system power returns to ON.

If you wish to turn on the power when the large signal system's power is off, transmit the DRF command each time.

2. 200V AC power-down switch (SW101)

Function: While 200V AC voltage is applied, operation of the PD circuit is turned on and off (ON when the switch is set to 100V AC, and OFF when the switch is set to 200V AC).

Setting: For the PU model only, the switch is set to 100V, and for other models, it is set to 200V.

3. Temperature compensation of the VOFS voltage for the drive system

Function: Control the power supply voltage mentioned above according to temperature. (Temperature compensation works so that the voltage is lowered on the lower-temperature side, and is raised on the higher-temperature side.)

Purpose: To improve the yield by compensating the temperature characteristics of the panel.

Supplementary information:

For this model, temperature compensation is performed only for the VOFS voltage, and not for the VSUS voltage, and it is controlled by software.

4. When a fuse blows

- If a fuse blows, never turn the power on again only after replacing the fuse. (In most cases, the fuse itself did not have any problem. So as long as factors of overcurrent have not been removed, chances of destruction increase every time the power is turned on. In the worst case, about a dozen parts may be destroyed.)
- Generally, the whole power-supply module assembly must be replaced.

5. Voltage adjustment of the panel drive

As this model employs the electronic VR system for the VSUS and VOFS voltages, and as the voltage-adjustment data are stored in the DIGITAL assembly, voltage adjustment of the panel drive is not necessary when the power-supply modules are changed. (For VADR, VH, and VRN, adjustments with semifixed VR controls are necessary.)

For this model, as the power-supply block has been developed and designed by an outside vendor, at the point you know which module is a cause of failure (through diagnosis described elsewhere in this manual), change the corresponding modules, and do not diagnose or repair the module. Similarly, the switches and the semifixed VRs inside the power-supply module must not be adjusted without a special reason.

7.1.3 DISASSEMBLY

About the detection switch

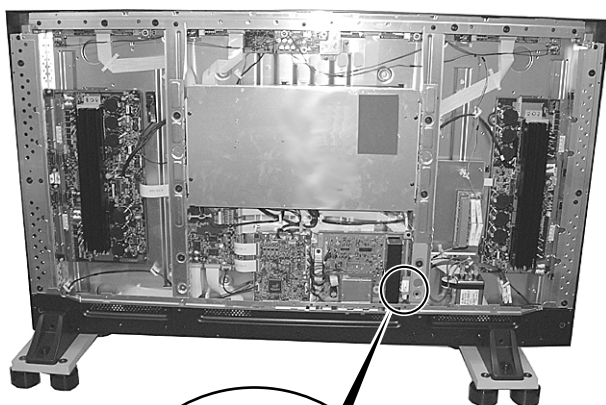
This unit adopt the "Rear Case opened ! detection" system. During servicing, be sure to follow the instructions below.

● Outlines and notes

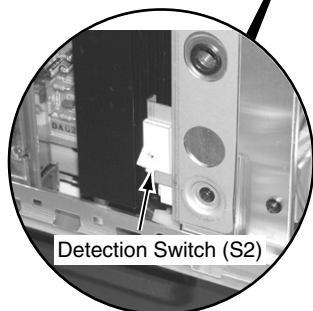
The PDP-503HD-series models use digital signals for video transmission from the Media Receiver to the Plasma Display. To address the need for copyright protection, content protection by HDCP is adopted.

Furthermore, the detection switch is equipped so that the power can never be turned on again if the rear case of the Plasma Display is opened without a specified procedure.

The detection switch does not work when the power is off or when the unit is switched to Standby mode from the remote control unit. Before servicing the Plasma Display, immobilize this switch with an electrical tape or equivalent, then turn on the power. Be sure to remove the tape after the repair is finished.



● Rear View



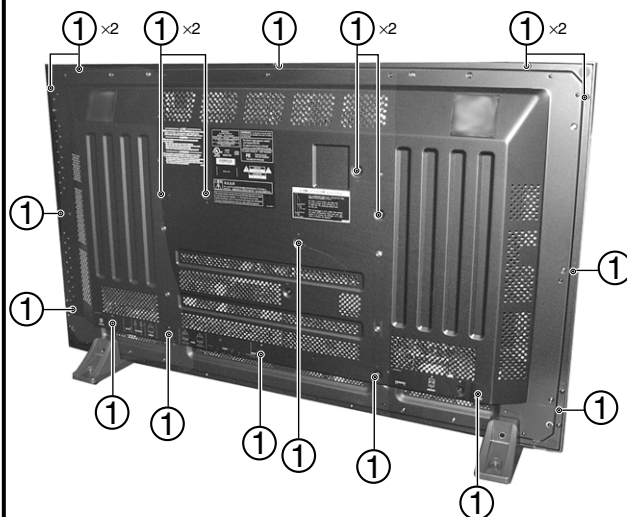
● Should the detection switch be activated

If the detection switch is activated, the red LED continuously blinks at intervals of 300 ms. After closing the rear case or immobilizing the detection switch with an electrical tape or equivalent, press the MENU, ENTER, then POWER keys of the remote control unit in that order. The unit restarts and enters Service Factory mode. Turn off the power using the remote control unit.

Then, the unit can be operated normally.

SW Power Supply Module

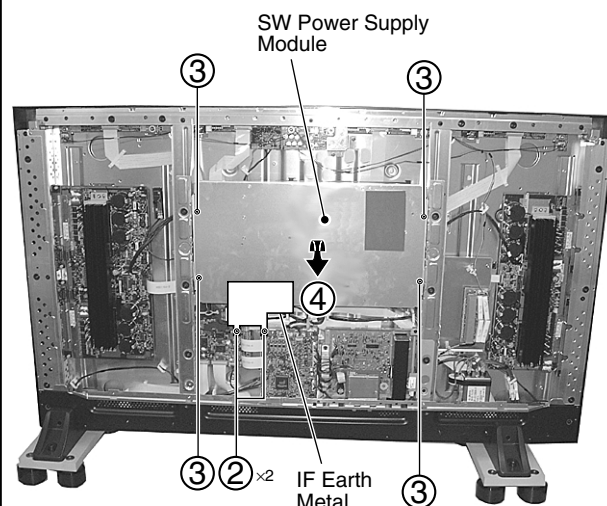
- ① Remove the Rear Case 50P.(Screws × 19)



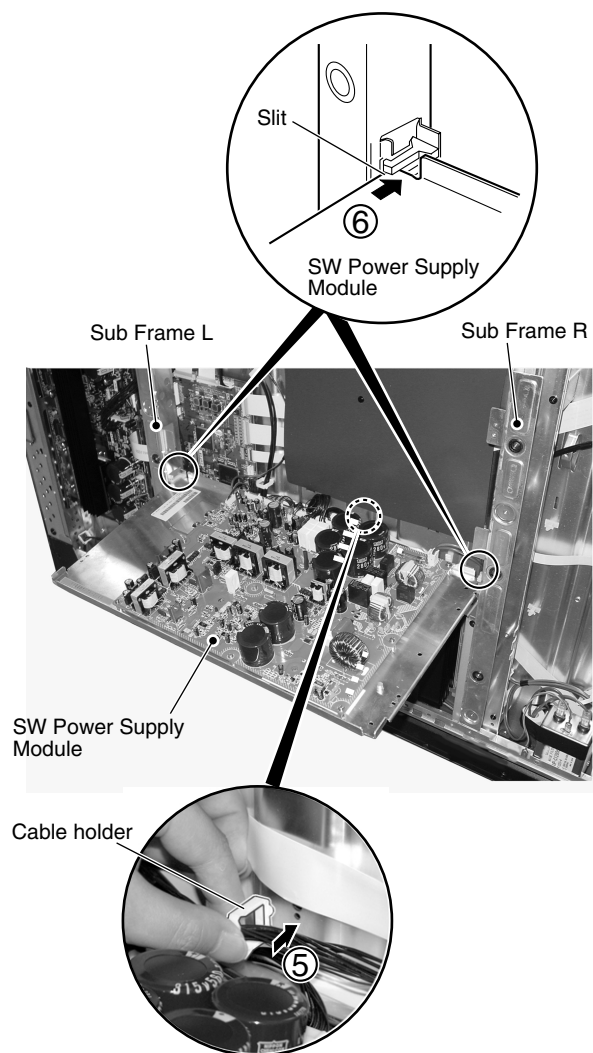
- ② Remove the IF Earth Metal.(Screws × 2)

- ③ Remove the four screws.

- ④ Remove the SW Power Supply Module.



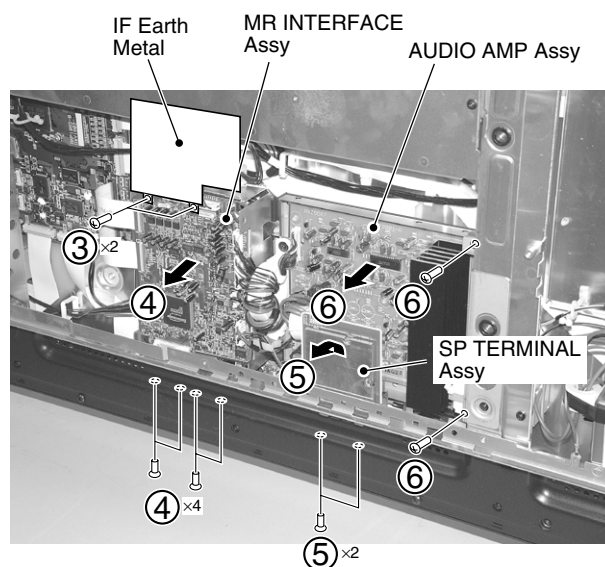
- ⑤ Remove the cable holder and insert it to another place, as indicated in the photo below.
- ⑥ Insert the SW Power Supply Module into the slits of Sub Frame L and R.



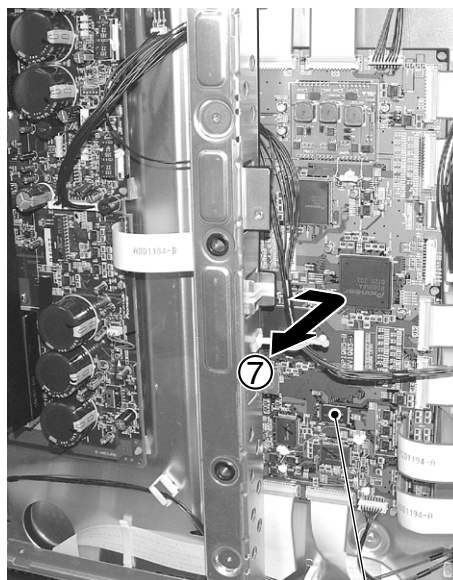
Diagnosis

MR INTERFACE, AUDIO AMP SP TERMINAL and DIGITAL VIDEO Assys

- ① Remove the Rear Case 50P. (Screws × 19)
- ② Remove the SW Power Supply Module. (Connector, Screws × 4)
- ③ Remove the IF Earth Metal. (Screws × 2)
- ④ Remove the MR INTERFACE Assy. (Connector, Screws × 4)
- ⑤ Remove the SP TERMINAL Assy. (Connector, Screws × 2)
- ⑥ Remove the AUDIO AMP Assy. (Connector, Screws × 2)



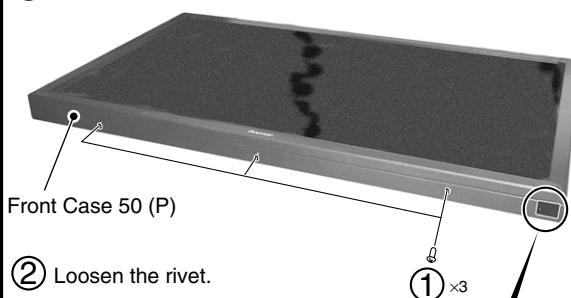
- ⑦ Remove the DIGITAL VIDEO Assy. (Connector, Circuit Board Spacers × 6)



DIGITAL VIDEO Assy

Y DRIVE, SCAN (A), (B) Assy

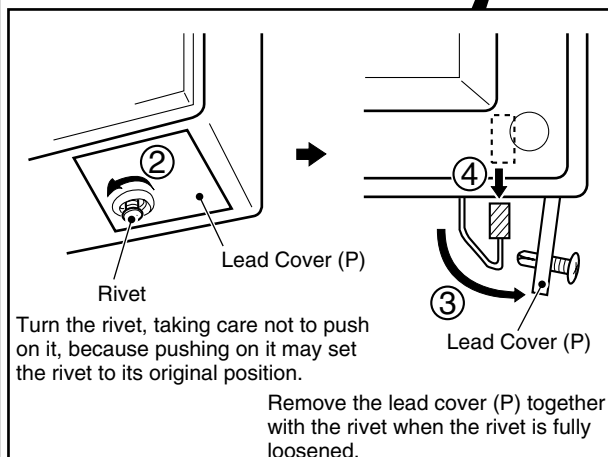
- ① Remove the three screws.



- ② Loosen the rivet.

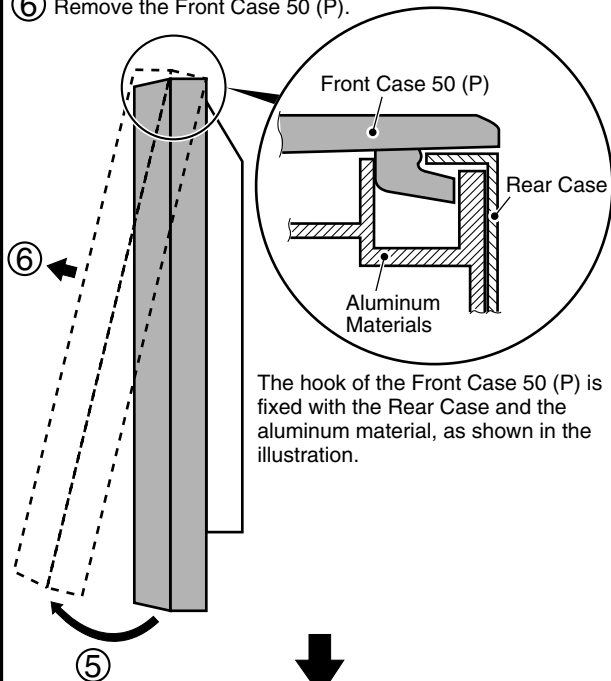
- ③ Remove the Lead Cover (P).

- ④ Pull out the Flexible Cable.



- ⑤ Detach the lower part of the Front Case 50 (P) so that it can swing open hinged at the top.

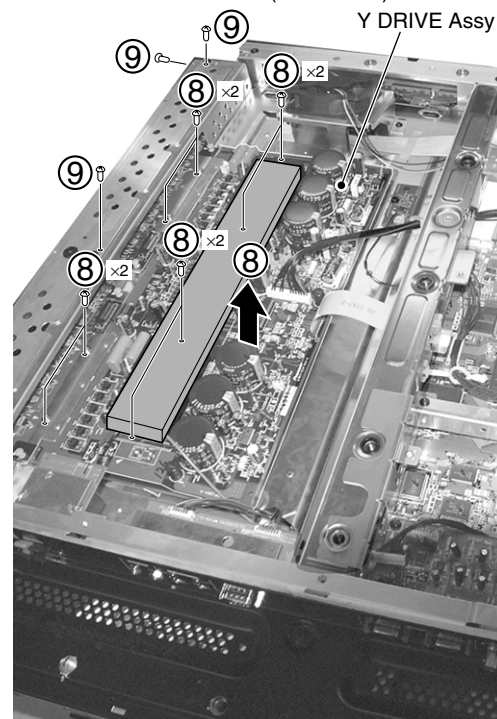
- ⑥ Remove the Front Case 50 (P).



- ⑦ Remove the Rear Case 50P. (Screws x 19)

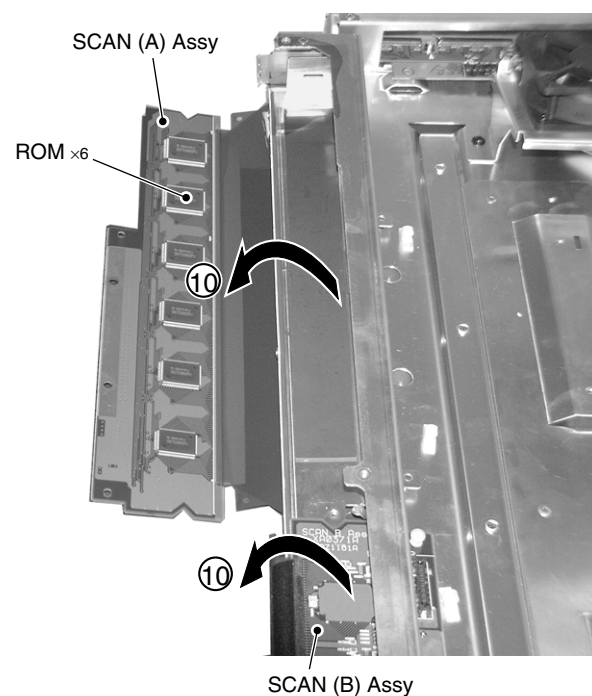
- ⑧ Remove the Y DRIVE Assy. (Connector, Screws x 8)

- ⑨ Remove the Front Chassis V. (Screws x 5)



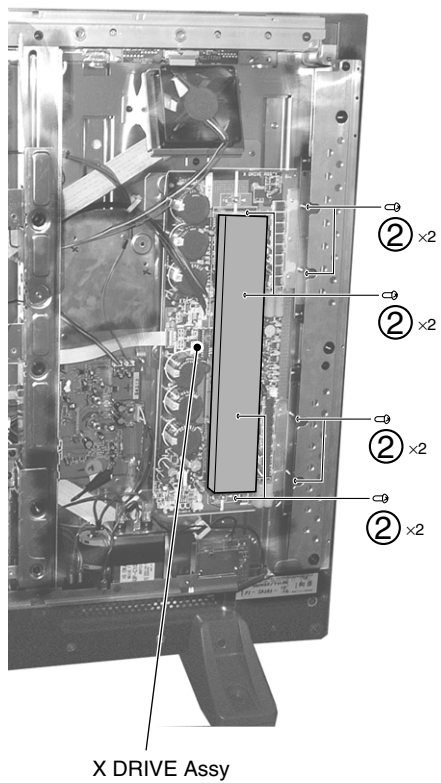
- ⑩ Reverse the SCAN (A) and SCAN (B) Assemblies.

- ⑪ Exchange the ROM if necessary.



X DRIVE Assy

- ① Remove the Rear Case 50P. (Screws × 19)
- ② Remove the X DRIVE Assy. (Connector, Screws × 8)



7.2 IC INFORMATION

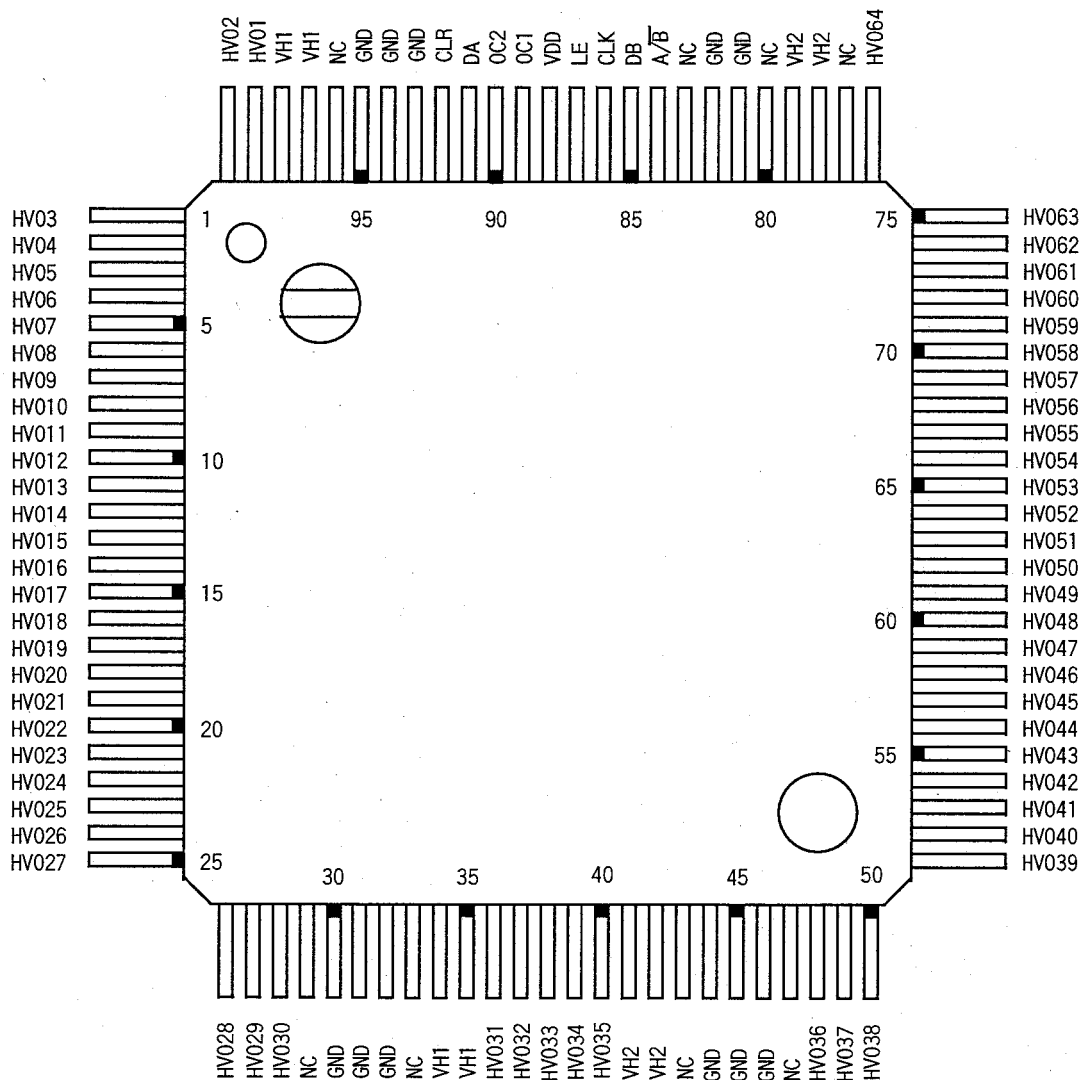
• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

• List of IC

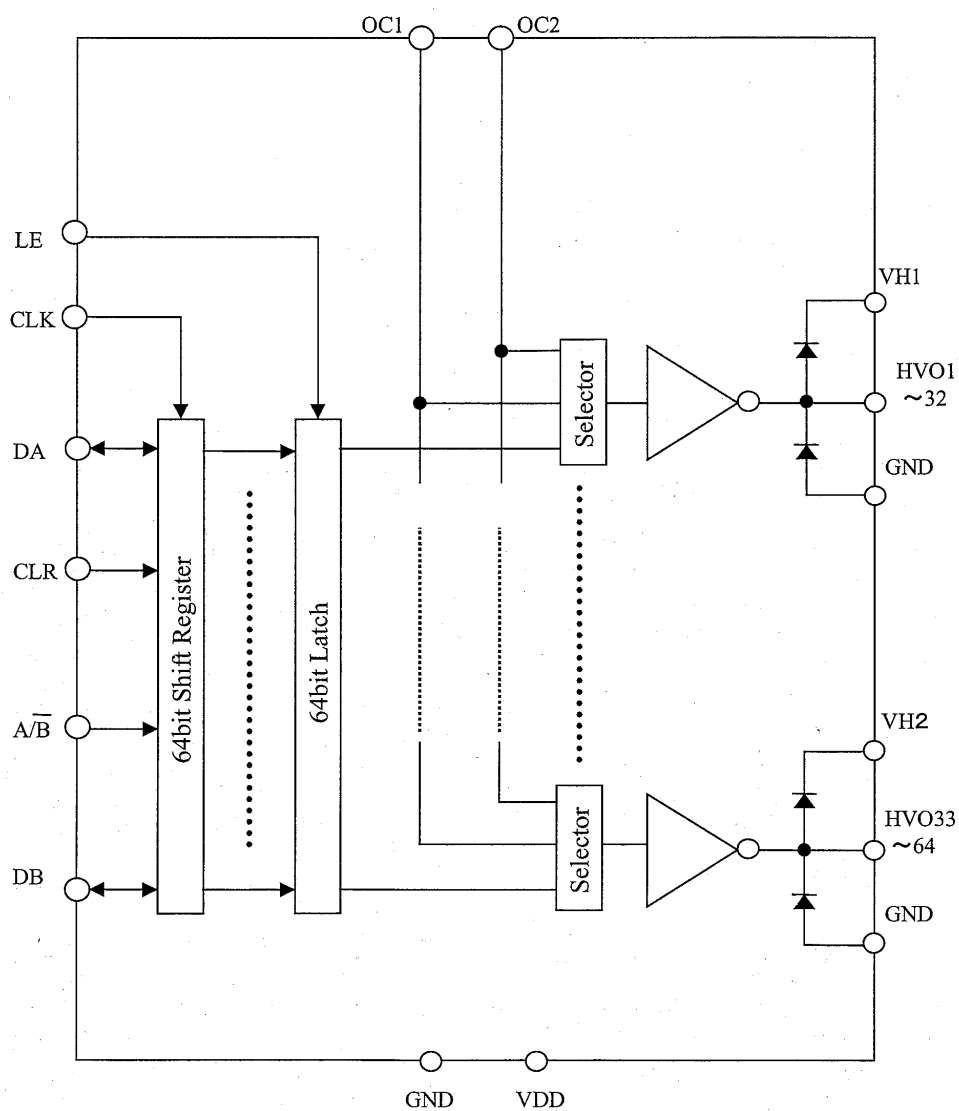
SN755864APZP, HD64F2328VF, PE1013B, M30624FGAFP, PD6358A, PST9246N, FS781BZB, STK795-470

■ SN755864APZP (SCAN A ASSY : IC6201 - IC6206, SCAN B ASSY : IC6001 - IC6006) Scan IC

● Pin Assignment (Top view)



● Block Diagram



● Pin Function

Name	Pin No.	I/O	Num.	Function
CLK	86	I	1	Shift clock (start edge partial response)
DA	91	I/O	1	The serial data input of shifting register
DB	85	I/O	1	The serial data output of shifting register
LE	40	I	1	It output data done a latch of by "H" level
CLR	92	I	1	It do data of shift register with "H" by "L" level
A/B	84	I	1	A shift directional control signal of shift register
OC1	89	I	1	An output control terminal of HVO
OC2	90	I	1	An output control terminal of HVO
HVO	99, 100, 1-28 36-40, 48-76	O	64	High voltage drive output (HVO1 - HVO64)
VDD	88	—	1	Logic power supply
GND	30-32, 44-46 81-82, 93, 94-95	—	11	Standard potential. This is common to HVO1 - HVO64.
VH1	34, 35, 97, 98	—	4	The high potential circuit power supply which is common to HVO1 - HVO32
VH2	41, 42, 78, 79	—	4	The high potential circuit power supply which is common to HVO33 - HVO64
NC	29, 33, 43, 47 77, 80, 83, 96	—	8	It is the insulation electrically

HD64F2328VF (DIGITAL VIDEO ASSY : IC1101)

Panel Microcomputer

● Pin Function (1/3)

No.	Pin Name	Function
1	CS_23	PE5064 (IC1703) control output
2	NC	NC Terminal
3	VSS	GND
4	VSS	GND
5	VCC	3.3V power supply
6	UA0	Address bus
7	UA1	Address bus
8	UA2	Address bus
9	UA3	Address bus
10	VSS	GND
11	UA4	Address bus
12	UA5	Address bus
13	UA6	Address bus
14	UA7	Address bus
15	UA8	Address bus
16	UA9	Address bus
17	UA10	Address bus
18	UA11	Address bus
19	VSS	GND
20	UA12	Address bus
21	UA13	Address bus
22	UA14	Address bus
23	UA15	Address bus
24	UA16	Address bus
25	UA17	Address bus
26	UA18	Address bus
27	UA19	Address bus
28	VSS	GND
29	UA20	Address bus
30	PA5	NC terminal
31	PA6	NC terminal
32	PA7	NC terminal
33	CE_PN	Enables / for panel microcomputer
34	CE_PN	Enables / for panel microcomputer
35	VSS	GND
36	VSS	GND
37	APLP	The APL value acquisition trigger signal input
38	VD_31	The V signal input from IC1401 (PD6358)
39	VCC	3.3V power supply
40	UD0	Data bus
41	UD1	Data bus
42	UD2	Data bus
43	UD3	Data bus
44	VSS	GND
45	UD4	Data bus
46	UD5	Data bus
47	UD6	Data bus
48	UD7	Data bus
49	UD8	Data bus
50	UD9	Data bus

● Pin Function (2/3)

No.	Pin Name	Function
51	UD10	Data bus
52	UD11	Data bus
53	VSS	GND
54	UD12	Data bus
55	UD13	Data bus
56	UD14	Data bus
57	UD15	Data bus
58	VCC	3.3V power supply
59	D_TXD	Communication with IC1207 (module microcomputer)
60	EXT_TXD	Communication with the outside (program notes)
61	D_RXD	Communication with IC1207 (module microcomputer)
62	EXT_RXD	Communication with the outside (program notes)
63	D_CLK	Communication with IC1207 (module microcomputer)
64	P60	NC terminal
65	VSS	GND
66	CS_FLASH	A flash memory control terminal
67	VSS	GND
68	VSS	GND
69	P61	NC terminal
70	UDREQ	IC1703 (PE5064) control terminal
71	P63	NC terminal
72	WE_FLASH	A flash memory note control signal (unused)
73	BUSY	The command receipt of a message lye Norwich output
74	REQ_PU	A communication demand to a module microcomputer
75	SEL23B	IC1703 (PE5064) control terminal
76	CLRB	IC1703 (PE5064) control terminal
77	FR_SEL	The free run select signal output
78	RST31B	The reset output to IC1301, IC1401 (PD6358)
79	RST23B	The reset output to IC1703 (PE5064)
80	FWE	Microcomputer program note control signal
81	RESET	Reset input
82	NMI	The at the rate of tang input (unused)
83	STBY	The hardware standby input (unused)
84	VCC	3.3V power supply
85	XTAL	A clock oscillation child connection terminal
86	EXTAL	A clock oscillation child connection terminal
87	VSS	GND
88	PF7	NC terminal
89	VCC	3.3V power supply
90	PF6	NC terminal
91	RDB	A read control terminal from an outside slave device
92	HWRB	A wright control terminal to an outside slave device
93	PF3	NC terminal
94	PF2	NC terminal
95	PF1	NC terminal
96	PF0	NC terminal
97	P50	NC terminal
98	P51	NC terminal
99	VSS	GND
100	VSS	GND

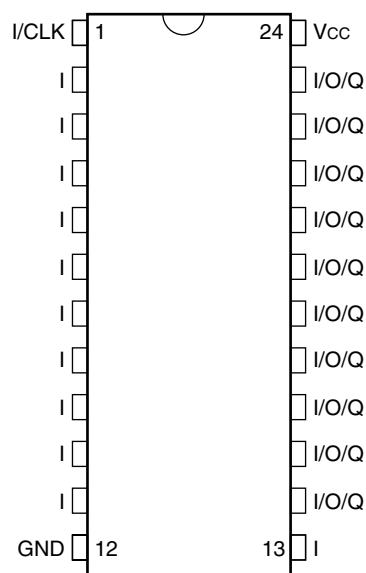
● Pin Function (3/3)

No.	Pin Name	Function
101	P52	NC terminal
102	P53	NC terminal
103	AVCC	3.3V power supply
104	VREF	A/D, D/A reference voltage input (unused)
105	STOPB	The drive control input from IC1703 (PE5064)
106	P41	NC terminal
107	RYBY	The flash memory note ready input
108	ADR_K_EMG_L1	The emergency input from panel bottom address resonance block
109	ADR_K_EMG_U1	The emergency input from panel upper address resonance block
110	ADR_K_EMG_L2	The emergency input from panel bottom address resonance block (unused)
111	ADR_K_EMG_U2	The emergency input from panel upper address resonance block (unused)
112	P47	NC terminal
113	AVSS	GND
114	VSS	GND
115	MUTE_ADR	The panel mute signal input
116	MUTE_SUS	The X and Y drive mute signal output (unused)
117	P15	NC terminal
118	HD	The HD signal input from outside Assy (RGB Assy etc.)
119	P13	NC terminal
120	P12	NC terminal
121	PC_VIDEO	The PC/Video identification output
122	VD	The HD signal input from outside Assy (RGB Assy etc.)
123	MD0	The microcomputer mode of operation select signal input
124	MD1	The microcomputer mode of operation select signal input
125	MD2	The microcomputer mode of operation select signal input
126	PG0	NC terminal
127	CS_31Y	IC1301, IC1401 (PD6358) control signal
128	CS_31X	IC1301, IC1401 (PD6358) control signal

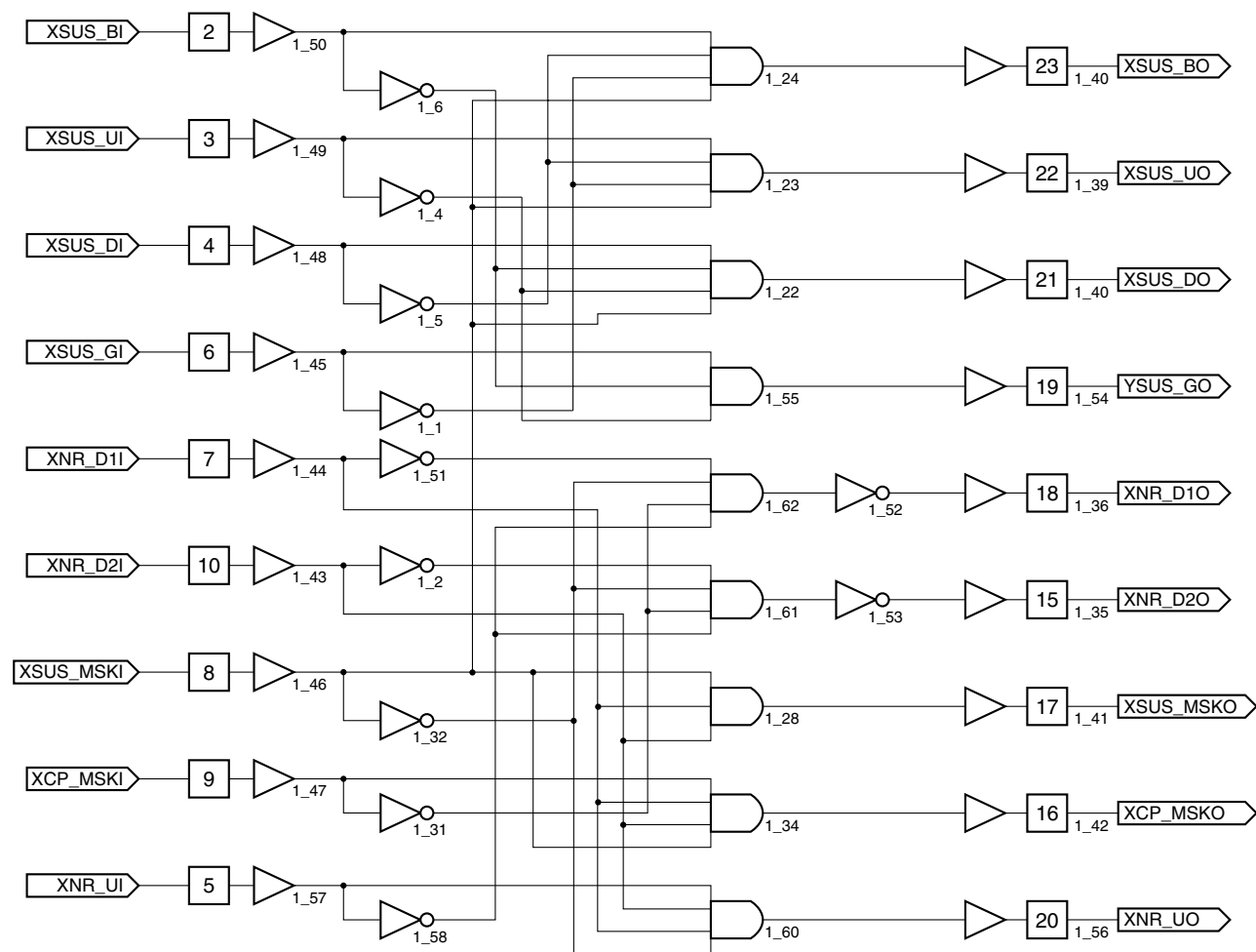
PE1012A (X DRIVEASSY : IC3003)

Drive Protect PLD

● Pin Assignment (Top View)



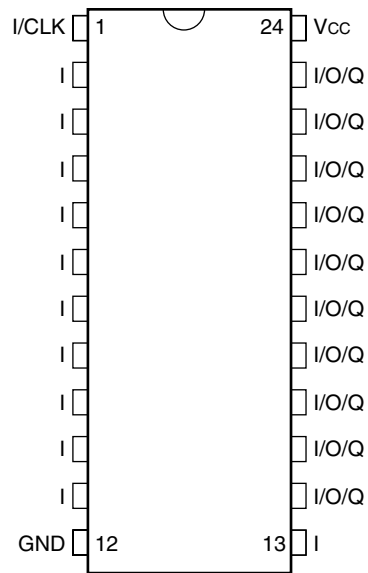
● Block Diagram



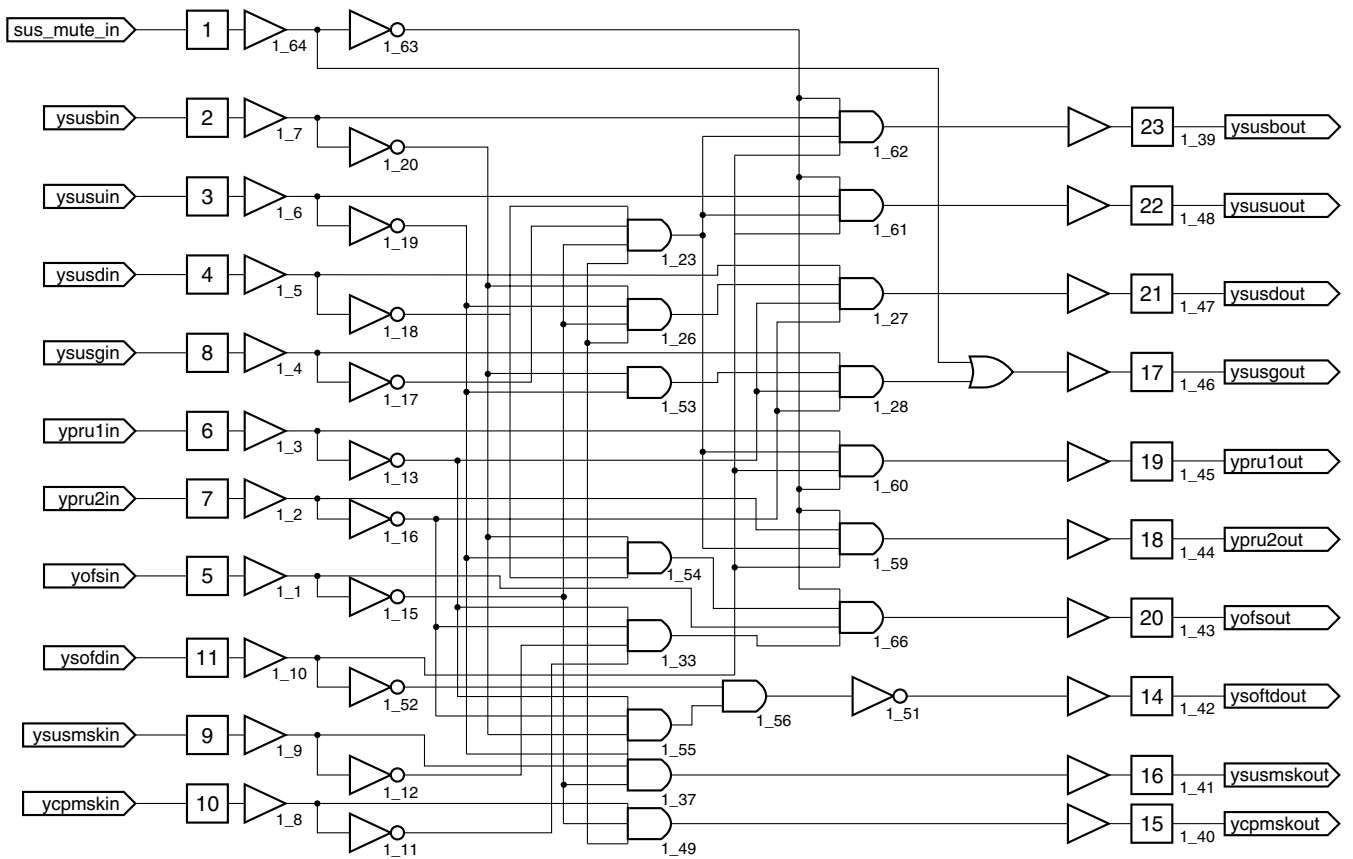
PE1013B (Y DRIVEASSY : IC2006)

Drive Protect PLD

● Pin Assignment (Top View)



● Block Diagram



M30624FGAFP (DIGITAL VIDEO ASSY : IC1207)

Module Microcomputer

● Pin Function (1/2)

No.	Pin Name	Function
1	TXD	Serial 3 line data output for communication with a panel microcomputer
2	CLK	Serial 3 line clock for communication with a panel microcomputer
3	NC	NC terminal
4	NC	NC terminal
5	NC	NC terminal
6	NC	NC terminal
7	NC	NC terminal
8	BYTE	The external data bus width reshuffling input (I am unused and connect GND)
9	CNVSS	A power supply for program note (a note, 5V, usually, pull-down)
10	XCIN	NC terminal
11	XCOUT	NC terminal
12	RESET	A reset input terminal
13	XOUT	Clock output terminal
14	VSS	GND
15	XIN	Clock input terminal
16	VCC	5V standby power
17	NMI	Because a NMI interruption terminal is unused, It handle pull up.
18	REM	The SR signal input
19	REQ_PU	A communication demand from a panel microcomputer (the pulse meter acquisition)
20	/SW_TRG	Main switch OFF / ON search
21	NC	NC terminal
22	NC	NC terminal
23	NC	NC terminal
24	AC_OFF	AC power OFF search and power supply ASSY differentiation.
25	PD_TRIGGER	Power down search
26	NC	NC terminal
27	NC	NC terminal
28	NC	NC terminal
29	SCL	EEPROM, IIC communication with power supply ASSY
30	SDA	EEPROM, IIC communication with power supply ASSY
31	TXD1	Communication with the outside (a program note)
32	RXD1	Communication with the outside (a program note)
33	CLK1	Communication with the outside (a program note)
34	BUSY1	Communication with the outside (a program note)
35	TXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
36	RXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
37	NC	NC terminal
38	REQ_MD/A_MUTE	232C communication demand (a request to a main microcomputer) / audio system mute
39	NC	NC terminal
40	NC	NC terminal
41	EPM	The EPM input for program note (L fixation)
42	NC	NC terminal
43	PU_CE	Enables/ for panel microcomputer
44	NC	NC terminal
45	MOD_SW/A_NG	The model of machines distinction input / audio system NG input
46	CE	The CE input for program note (H fixation)
47	DITHER/SW_STC	Power supply search of a dither setting / media receiver for module
48	NC	NC terminal
49	/SW_STP	Power supply search of a panel
50	NC	NC terminal

● Pin Function (2/2)

No.	Pin Name	Function
51	NC	NC terminal
52	RELAY	The output for power supply ON / OFF change
53	POWER/MSTATE	Input / SI861 master information for power supply ON / OFF change
54	NC	NC terminal
55	WE_PN	Buffer state control for panel microcomputer note
56	MD0	The panel microcomputer mode of operation change output
57	MD2	The panel microcomputer mode of operation change output
58	FWE	The panel microcomputer program note control signal output
59	RST_PU	The panel microcomputer reset output
60	PN_MUTE	The panel mute input
61	NC	NC terminal
62	VCC	5V standby power
63	NC	NC terminal
64	VSS	GND
65	NC	NC terminal
66	NC	NC terminal
67	/A_SCL	IIC clock for audio system
68	/A_SDA	IIC data for audio system
69	APD_MUTE	A mute signal of address series
70	ADR_K_PD	The address oscillatory system PD input
71	ADR_PD	The address series PD input
72	DCC_PD	The power supply system PD input
73	NC	NC terminal
74	NC	NC terminal
75	RST2	Panel microcomputer reset search
76	NC	NC terminal
77	/DDC_SCL	IIC communication with a media receiver
78	/DDC_SDA	IIC communication with a media receiver
79	NC	NC terminal
80	NC	NC terminal
81	DEW_DET	The dew condensation sensor input
82	NC	NC terminal
83	NC	NC terminal
84	NC	NC terminal
85	NC	NC terminal
86	LED_G	Green LED lighting (LED on interface ASSY in a panel module)
87	LED_R	Red LED lighting (LED on interface ASSY in a panel module)
88	NC	NC terminal
89	BUSY	Communication permission / inhibiting signal from a panel microcomputer
90	NC	NC terminal
91	NC	NC terminal
92	/F_KEY1	The front KEY input
93	MAX_PLS2/F_KEY2	The terminal / front KEY input for brightness setting mode of operation change
94	TEMP1	The A/D input for temperature sensor
95	MAX_PLS? /CCKM	Terminal / connection search for brightness setting mode of operation change
96	AVSS	GND for AD conversion
97	PM_ST	The A/D input for model of machines distinction
98	VREF	Reference voltage for AD conversion
99	AVCC	5V standby power for AD conversion
100	RXD	Serial 3 line data entry for communication with a panel microcomputer

PD6358A (DIGITAL VIDEO ASSY : IC1301, IC1401)

Picture Improved IC

● Pin Function (1/7)

No.	Pin Name	Function
1	VSS	GND
2	TESTO6	Test output terminal (unused)
3	OSDCLK	The CLK input for OSD
4	TTST	Test input terminal (unused)
5	VDDI	2.5V power supply
6	OVDDE-01	3.3V power supply
7	AGO0	Address data output (G signal)
8	VDDI	2.5V power supply
9	AGO2	Address data output (G signal)
10	AGO3	Address data output (G signal)
11	AGO4	Address data output (G signal)
12	VDDI	2.5V power supply
13	ARO6	Address data output (R signal)
14	AGO7	Address data output (G signal)
15	VDDI	2.5V power supply
16	ARO9	Address data output (R signal)
17	ABO9	Address data output (B signal)
18	VDDI	2.5V power supply
19	ADRCLKO2	The address CLK output (for panel upper part)
20	ARO12	Address data output (R signal)
21	ARO13	Address data output (R signal)
22	AGO14	Address data output (G signal)
23	AGO15	Address data output (G signal)
24	ARO16	Address data output (R signal)
25	ARO17	Address data output (R signal)
26	VSS	GND
27	ABO17	Address data output (B signal)
28	AGO17	Address data output (G signal)
29	AGO18	Address data output (G signal)
30	ABO19	Address data output (B signal)
31	UDAT15	Microcomputer data bus
32	UDAT12	Microcomputer data bus
33	UDAT9	Microcomputer data bus
34	UDAT5	Microcomputer data bus
35	OVDDE-06	3.3V power supply
36	APLP	APL value output trigger signal
37	OVDDE-08	3.3V power supply
38	CS5BI	The chip select input
39	CS4BI	The chip select input
40	UADRI13	Microcomputer address bus
41	UADRI9	Microcomputer address bus
42	UADRI6	Microcomputer address bus
43	UADRI2	Microcomputer address bus
44	UADRI1	Microcomputer address bus
45	TESTI2	Test input terminal (unused)
46	BIT0	The subfield No output (the 0 bit)
47	OVDDE-11	3.3V power supply
48	TESTO4	Test output terminal (unused)
49	ARO39	Address data output (G signal)
50	AGO38	Address data output (G signal)

● Pin Function (2/7)

No.	Pin Name	Function
51	VSS	GND
52	ABO37	Address data output (B signal)
53	ABO36	Address data output (B signal)
54	ARO36	Address data output (R signal)
55	ABO34	Address data output (B signal)
56	ADRCLKO4	The address CLK output (for panel bottom part)
57	AGO33	Address data output (G signal)
58	AGO32	Address data output (G signal)
59	AGO31	Address data output (G signal)
60	AGO30	Address data output (G signal)
61	AGO29	Address data output (G signal)
62	VDDI	2.5V power supply
63	ABO27	Address data output (B signal)
64	AGO26	Address data output (G signal)
65	VDDI	2.5V power supply
66	AGO24	Address data output (G signal)
67	VDDI	2.5V power supply
68	ABO22	Address data output (B signal)
69	VDDI	2.5V power supply
70	ARO21	Address data output (R signal)
71	ARO20	Address data output (R signal)
72	VDDI	2.5V power supply
73	OVDDE-14	3.3V power supply
74	TDI	The JTAG input
75	RBI9	The R picture B aspect signal input (the ninth bit)
76	VSS	GND
77	RBI8	The R picture B aspect signal input (the eighth bit)
78	RBI6	The R picture B aspect signal input (the sixth bit)
79	RBI4	The R picture B aspect signal input (the fourth bit)
80	OVSS-09	GND
81	RSTB	Reset input
82	GBI8	The G picture B aspect signal input (the eighth bit)
83	OVDDE-18	3.3V power supply
84	GBI5	The G picture B aspect signal input (the fifth bit)
85	GBI2	The G picture B aspect signal input (the second bit)
86	DEI	DE signal input
87	BBI6	The B picture B aspect signal input (the sixth bit)
88	BBI3	The B picture B aspect signal input (the third bit)
89	VDI	VD signal input
90	HDI	HD signal input
91	RAI6	The R picture A aspect signal input (the sixth bit)
92	RAI2	The R picture A aspect signal input (the second bit)
93	TESTI0	Test input terminal (unused)
94	OVSS-11	GND
95	GAI7	The G picture A aspect signal input (the seventh bit)
96	GAI3	The G picture A aspect signal input (the third bit)
97	GAI0	The G picture A aspect signal input (the 0 bit)
98	BAI6	The B picture A aspect signal input (the sixth bit)
99	BAI3	The B picture A aspect signal input (the third bit)
100	BAI0	The B picture A aspect signal input (the 0 bit)

● Pin Function (3/7)

No.	Pin Name	Function
A 101	TESTO7	Test output terminal (unused)
102	TESTO5	Test output terminal (unused)
103	OSDH	OSDH input
104	BLK	OSDBLK input
105	OSDB	OSDB signal input
106	NC	NC terminal
107	ARO1	Address data output (R signal)
108	ARO2	Address data output (R signal)
109	ARO3	Address data output (R signal)
110	ARO4	Address data output (R signal)
B 111	ARO5	Address data output (R signal)
112	ABO5	Address data output (B signal)
113	ARO7	Address data output (R signal)
114	ARO8	Address data output (R signal)
115	ABO8	Address data output (B signal)
116	AGO9	Address data output (G signal)
117	AGO10	Address data output (G signal)
118	ADRCKO1	Address CLK output (for panel upper part)
119	ABO11	Address data output (B signal)
120	ABO12	Address data output (B signal)
121	ARO14	Address data output (R signal)
C 122	ARO15	Address data output (R signal)
123	ABO15	Address data output (B signal)
124	ABO16	Address data output (B signal)
125	AGO16	Address data output (G signal)
126	ARO18	Address data output (R signal)
127	AGO19	Address data output (G signal)
128	OVDDE-05	3.3V power supply
129	UDAT13	Microcomputer data bus
130	UDAT10	Microcomputer data bus
131	UDAT6	Microcomputer data bus
D 132	UDAT3	Microcomputer data bus
133	UDAT0	Microcomputer data bus
134	OVDDE-07	3.3V power supply
135	LR	The panel LR select input
136	RDBI	Microcomputer read control terminal
137	CLKSEL	CLK select input
138	UADRI10	Microcomputer address bus
139	UADRI7	Microcomputer address bus
140	UADRI3	Microcomputer address bus
141	CYCLEB	Address data output control signal
142	BIT2	Subfield No. output (the second bit)
E 143	SFSTB	Address data output control signal
144	OVSS-05	GND
145	TESTO2	Test output terminal (unused)
146	ABO38	Address data output (B signal)
147	ARO38	Address data output (R signal)
148	ARO37	Address data output (R signal)
149	AGO36	Address data output (G signal)
150	ARO35	Address data output (R signal)

● Pin Function (4/7)

No.	Pin Name	Function
151	ADRCCLKO3	The address CLK output (for panel bottom part)
152	ABO33	Address data output (B signal)
153	ABO32	Address data output (B signal)
154	VDDI	2.5V power supply
155	ABO30	Address data output (B signal)
156	VDDI	2.5V power supply
157	ABO28	Address data output (B signal)
158	ARO28	Address data output (R signal)
159	ABO26	Address data output (B signal)
160	ABO25	Address data output (B signal)
161	ABO24	Address data output (B signal)
162	ARO24	Address data output (R signal)
163	ARO23	Address data output (R signal)
164	ARO22	Address data output (R signal)
165	AGO21	Address data output (G signal)
166	AGO20	Address data output (G signal)
167	TDO	JTAG signal
168	TMS	JTAG signal
169	RBI7	The R picture B aspect signal input (the seventh bit)
170	TCK	JTAG signal
171	RBI5	The R picture B aspect signal input (the fifth bit)
172	RBI3	The R picture B aspect signal input (the third bit)
173	RBI1	The R picture B aspect signal input (the first bit)
174	OVDDE-16	3.3V power supply
175	GBI7	The G picture B aspect signal input (the seventh bit)
176	OVSS-10	GND
177	GBI4	The G picture B aspect signal input (the fourth bit)
178	GBI1	The G picture B aspect signal input (the first bit)
179	BBI9	The B picture B aspect signal input (the ninth bit)
180	BBI5	The B picture B aspect signal input (the fifth bit)
181	BBI2	The B picture B aspect signal input (the second bit)
182	RAI9	The R picture A aspect signal input (the ninth bit)
183	CLK3	CLK input terminal (unused)
184	RAI5	The R picture A aspect signal input (the fifth bit)
185	RAI1	The R picture A aspect signal input (the first bit)
186	TESTI1	Test input terminal (unused)
187	GAI9	The G picture A aspect signal input (the ninth bit)
188	GAI6	The G picture A aspect signal input (the sixth bit)
189	GAI2	The G picture A aspect signal input (the second bit)
190	BAI9	The B picture A aspect signal input (the ninth bit)
191	BAI5	The B picture A aspect signal input (the fifth bit)
192	BAI2	The B picture A aspect signal input (the second bit)
193	BAI1	The B picture A aspect signal input (the first bit)
194	OVSS-01	GND
195	OVSS-02	GND
196	OSDG	OSDG signal input
197	ARO0	Address data output (R signal)
198	ABO0	Address data output (B signal)
199	ABO1	Address data output (B signal)
200	ABO2	Address data output (B signal)

● Pin Function (5/7)

No.	Pin Name	Function
201	ABO3	Address data output (B signal)
202	ABO4	Address data output (B signal)
203	OVDDE-02	3.3V power supply
204	ABO6	Address data output (B signal)
205	ABO7	Address data output (B signal)
206	VDDI	2.5V power supply
207	OVDDE-03	3.3V power supply
208	ARO10	Address data output (R signal)
209	ABO10	Address data output (B signal)
210	AGO11	Address data output (G signal)
211	AGO12	Address data output (G signal)
212	ABO13	Address data output (B signal)
213	ABO14	Address data output (B signal)
214	OVDDE-04	3.3V power supply
215	OVSS-03	GND
216	ARO19	Address data output (R signal)
217	TESTO1	Test output terminal (unused)
218	UDAT14	Microcomputer data bus
219	UDAT11	Microcomputer data bus
220	UDAT7	Microcomputer data bus
221	UDAT4	Microcomputer data bus
222	UDAT1	Microcomputer data bus
223	VDRD	V signal output
224	HWRBI	Microcomputer wright control terminal
225	UADRI14	Microcomputer address bus
226	OVDDE-09	3.3V power supply
227	UADRI11	Microcomputer address bus
228	UADRI8	Microcomputer address bus
229	UADRI4	Microcomputer address bus
230	BIT3	Subfield No. output (the third bit)
231	BIT1	Subfield No. output (the first bit)
232	OVDDE-10	3.3V power supply
233	TESTO3	Test output terminal (unused)
234	ABO39	Address data output (B signal)
235	AGO37	Address data output (G signal)
236	OVSS-06	GND
237	AGO35	Address data output (G signal)
238	ADRCLKO5	Address CLK output (for panel bottom part)
239	ARO34	Address data output (R signal)
240	ARO33	Address data output (R signal)
241	ABO31	Address data output (B signal)
242	ARO31	Address data output (R signal)
243	ABO29	Address data output (B signal)
244	ARO29	Address data output (R signal)
245	OVDDE-12	3.3V power supply
246	ARO27	Address data output (R signal)
247	ARO26	Address data output (R signal)
248	ARO25	Address data output (R signal)
249	OVDDE-13	3.3V power supply
250	AGO23	Address data output (G signal)

● Pin Function (6/7)

No.	Pin Name	Function
251	AGO22	Address data output (G signal)
252	VDDI	2.5V power supply
253	ABO20	Address data output (B signal)
254	OVSS-07	GND
255	OVDDE-15	3.3V power supply
256	OVSS-08	GND
257	RBI2	The R picture B aspect signal input (the second bit)
258	TRST	JTAG signal
259	GBI9	The G picture B aspect signal input (the ninth bit)
260	GBI6	The G picture B aspect signal input (the sixth bit)
261	OVDDE-17	3.3V power supply
262	GBI3	The G picture B aspect signal input (the third bit)
263	GBI0	The G picture B aspect signal input (the 0 bit)
264	BBI8	The B picture B aspect signal input (the eighth bit)
265	BBI4	The B picture B aspect signal input (the fourth bit)
266	BBI1	The B picture B aspect signal input (the first bit)
267	RAI8	The R picture A aspect signal input (the eighth bit)
268	OVDDE-19	3.3V power supply
269	RAI4	The R picture A aspect signal input (the fourth bit)
270	RAI0	The R picture A aspect signal input (the 0 bit)
271	FREERUN	The freerun control input
272	GAI8	The G picture A aspect signal input (the eighth bit)
273	GAI5	The G picture A aspect signal input (the fifth bit)
274	GAI1	The G picture A aspect signal input (the first bit)
275	BAI8	The B picture A aspect signal input (the eighth bit)
276	BAI4	The B picture A aspect signal input (the fourth bit)
277	VDDE	3.3V power supply
278	OSDV	OSDV input
279	VSS	GND
280	OSDR	OSDR signal input
281	VDDE	3.3V power supply
282	AGO1	Address data output (G signal)
283	VSS	GND
284	VDDI	2.5V power supply
285	VDDI	2.5V power supply
286	AGO5	Address data output (G signal)
287	AGO6	Address data output (G signal)
288	VDDI	2.5V power supply
289	AGO8	Address data output (G signal)
290	VSS	GND
291	ADRCLKO0	The address CLK output (for panel upper part)
292	VDDE	3.3V power supply
293	ARO11	Address data output (R signal)
294	VSS	GND
295	AGO13	Address data output (G signal)
296	VDDE	3.3V power supply
297	ABO18	Address data output (B signal)
298	VSS	GND
299	TESTO0	Test output terminal (unused)
300	VDDI	2.5V power supply

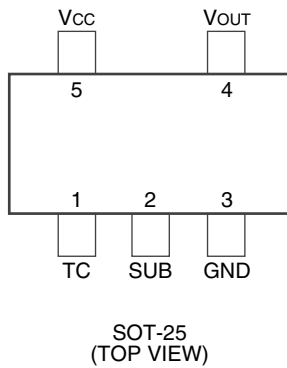
● Pin Function (7/7)

No.	Pin Name	Function
301	UDAT8	Microcomputer data bus
302	VSS	GND
303	UDAT2	Microcomputer data bus
304	VDDI	2.5V power supply
305	OVSS-04	GND
306	UADRI15	Microcomputer address bus
307	VDDI	2.5V power supply
308	UADRI12	Microcomputer address bus
309	VSS	GND
310	UADRI5	Microcomputer address bus
311	VDDI	2.5V power supply
312	NC	NC terminal
313	VSS	GND
314	AGO39	Address data output (G signal)
315	VDDE	3.3V power supply
316	ABO35	Address data output (B signal)
317	VSS	GND
318	AGO34	Address data output (G signal)
319	VDDE	3.3V power supply
320	ARO32	Address data output (R signal)
321	VSS	GND
322	ARO30	Address data output (R signal)
323	VDDI	2.5V power supply
324	AGO28	Address data output (G signal)
325	AGO27	Address data output (G signal)
326	NC	NC terminal
327	AGO25	Address data output (G signal)
328	VSS	GND
329	ABO23	Address data output (B signal)
330	VDDE	3.3V power supply
331	ABO21	Address data output (B signal)
332	VSS	GND
333	VPD	GND
334	VDDE	3.3V power supply
335	RBI0	The R picture B aspect signal input (the 0 bit)
336	VSS	GND
337	ACLK	CLK input (25MHz)
338	VDDI	2.5V power supply
339	CLK4	CLK input (50MHz)
340	VSS	GND
341	BBI7	The B picture B aspect signal input (the seventh bit)
342	VDDI	2.5V power supply
343	BBI0	The B picture B aspect signal input (the 0 bit)
344	RAI7	The R picture A aspect signal input (the seventh bit)
345	VDDI	2.5V power supply
346	RAI3	The R picture A aspect signal input (the third bit)
347	VSS	GND
348	CLK2	The image system CLK input
349	VDDI	2.5V power supply
350	GAI4	The G picture A aspect signal input (the fourth bit)
351	VSS	GND
352	BAI7	The B picture A aspect signal input (the seventh bit)

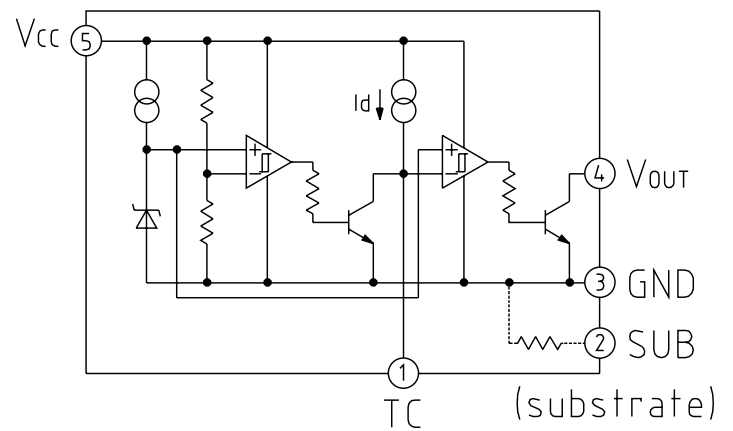
■ PST9246N (DIGITAL VIDEO ASSY: IC1208)

Drive Protect PLD

● Pin Assignment (Top View)



● Block Diagram



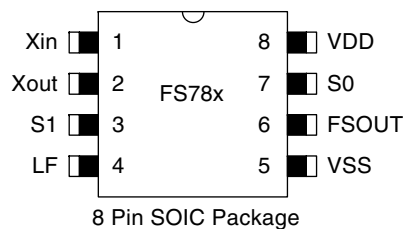
● Pin Function

Pin No.	Pin name	Functions
1	TC	TPLH control pin
2	SUB	Substate pin
3	GND	GND pin
4	Vout	Reset signal output pin
5	Vcc	Vcc pin / voltage detect pin

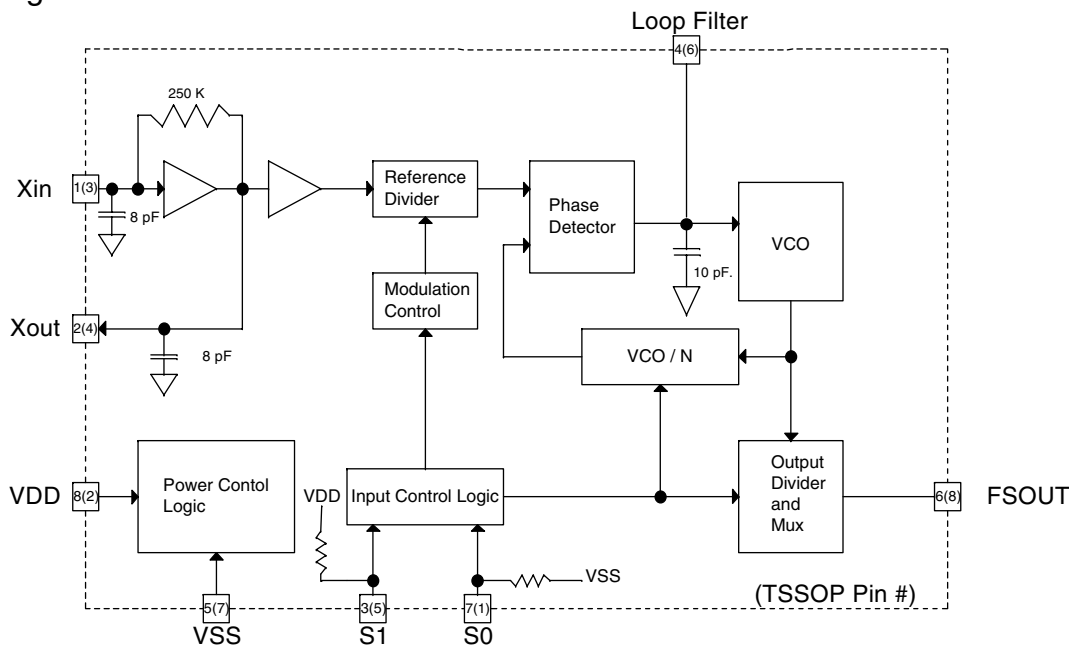
FS781BZB (DIGITAL VIDEO ASSY: IC1802)

Low EMI Clock IC

Pin Assignment (Top View)



Block Diagram

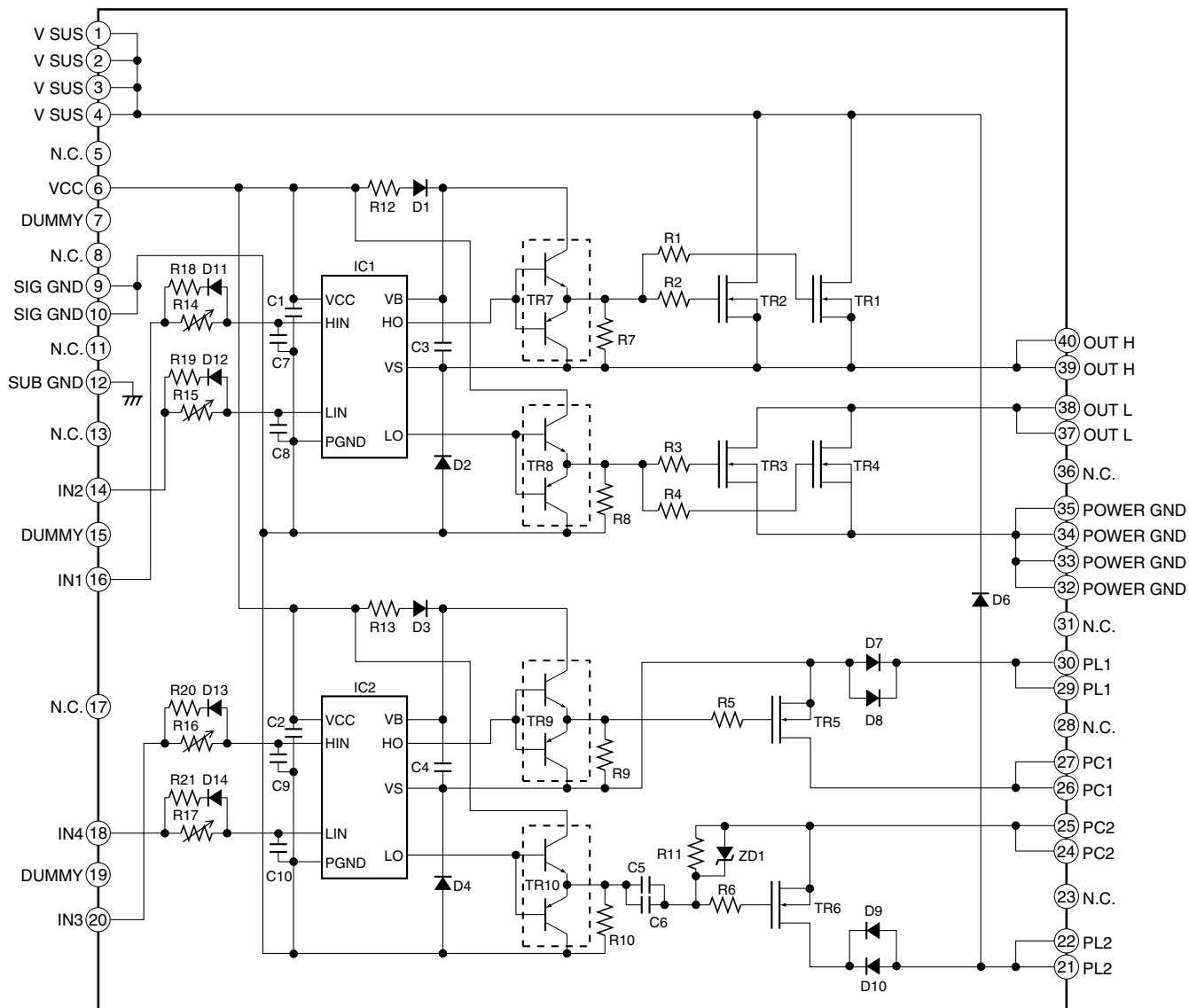


Pin Function

No.	Pin Name	I/O	Type	Function
1/2	Xin/Xout	I/O	Analog	Pins form an on-chip reference oscillator when connected to terminals of an external parallel resonant crystal. Xin may be connected to TTL/CMOS external clock source. If Xin connected to external clock other than crystal, leave Xout (pin2) unconnected.
7/3	S0/S1	I	CMOS/TTL	Digital control inputs to select input frequency range and output frequency scaling. Refer to Tables 7 and 8 for selection. S0 has internal pulldown. S1 has internal pullup.
4	LF	I	Analog	Loop Filter. Single ended tri-state output of the phase detector. A two-pole passive loop filter is connected to Loop Filter (LF).
6	FSOUT	O	CMOS/TTL	Modulated Clock Frequency Output. The center frequency is the same as the input reference frequency for FS781. Input frequency is multiplied by 2X and 4X for FS782 and FS784 respectively.
8	VDD	P	Power	Positive Power Supply
5	VSS	P	Power	Power Supply Ground

■ STK795-470 (X DRIVE ASSY : IC3200, IC3201, Y DRIVE ASSY : IC2206, IC2214) PDP Pulse Module IC

● Block Diagram



8. PANEL FACILITIES

Plasma Display

